



## Index to Volume 123

The Auk 123(4):1212-1235, 2006  
© The American Ornithologists' Union, 2006.  
Printed in USA.

COMPILED BY TODD J. UNDERWOOD AND ROBYN M. UNDERWOOD

The index is confined primarily to new information. New specific names are printed in **boldface** type.

- 100 Years Ago in the American Ornithologists' Union, 295-296, 611-613, 924-925, 1208-1209
- abundance, 33-44, 183-197, 345-357, 368-382, 438-454, 735-752, 1038-1051, 1110-1128, 1172-1182;  
arthropod -, 171-182
- Accipiter*, 82-96  
*A. cooperii*, 82-96, 431-437, 1069-1076  
*A. gentilis*, 877-884  
*A. nisus*, 163-171, 1069-1076  
*A. striatus*, 82-96, 431-437, 822-835  
Accipitridae, 1069-1076  
acoustic, - advantages, 795-806; - recordings, 587-593  
*Acridotheres tristis*, 764-774, 949-957  
*Acrocephalus*, 419-430  
*A. arundinaceus*, 419-430, 467-474  
*A. melanopogon*, 383-392  
*A. palustris*, 419-430  
*A. schoenobaenus*, 383-392, 524-536, 991-1003  
*Actenoides*, 487-499  
*A. concretus*, 487-499  
*A. lindsayi*, 487-499  
*Actitis macularius*, 524-536, 695-707, 926-936  
*A. hypoleucos*, 926-936  
adaptations, 419-430; ecological -, 1052-1065  
adaptive radiation, 335-344  
advanced glycation endproducts, 870-876  
*Aechmophorus*, 1183-1184  
*Aethia cristatella*, 681-694, 722-734  
*A. psittacula*, 722-734  
*A. pusilla*, 681-694, 722-734  
*A. pygmaea*, 722-734  
Afton, Alan D., see Jónsson, Jón Einar, et al.  
age, 467-474; biological -, 775-783; chronological -, 775-783; - structure, 775-783  
*Agelaioides badius*, 211-234  
*Agelaius assimilis*, 211-234  
*A. humeralis*, 211-234  
*A. phoeniceus*, 135-140, 183-197, 211-234, 431-437, 512-523, 991-1003  
*A. thilius*, 23-32  
*A. tricolor*, 211-234  
*A. xanthomus*, 211-234  
*Agelasticus cyanopus*, 211-234  
*A. thilius*, 211-234  
*A. xanthophthalmus*, 211-234
- aggregation, male -, 247-258  
aggression, 61-66  
aging, 148-152, 775-783, 870-876  
agriculture, 807-821  
Ahlering, Marissa A., and Faaborg, John, Avian habitat management meets conspecific attraction: If you build it, will they come?, 301-312  
Aiama, Deviah M., see Barg, Jennifer J., et al.  
*Aimophila aestivalis*, 1110-1128  
*A. cassinii*, 171-182  
*A. ruficeps*, 512-523  
Ainley, David G., see Dugger, Katie M., et al.  
Alaska, 198-210, 877-884  
*Alauda arvensis*, 949-957  
Albatross, 524-536; Laysan, 681-694; Wandering, 524-536, 775-783; Waved, 524-536, 625-638  
Albertson, Joy D., see Schwarzbach, Steven E., et al.  
*Alca torda*, 722-734  
Alcedinidae, 487-499  
Alcedininae, 487-499  
*Alcedo*, 487-499  
*A. atthis*, 487-499  
*A. azurea*, 487-499  
*A. cristata*, 487-499  
*A. lepidus*, 487-499  
*A. leucogaster*, 487-499  
*A. quadribachys*, 487-499  
Alcidae, 926-936  
alcids, 681-694, 722-734  
*Alcyon azurea*, 487-499  
Alerstam, Thomas, see Nilsson, Anna L. K., et al.  
Alexander, John D., see Frey, Robert L., and -  
Alisauskas, Ray T., see Jónsson, Jón Einar, et al.  
Alisauskas, Ray T., see Traylor, Joshua J., and -  
Alldredge, Mathew W., et al., Estimating detection probabilities from multiple-observer point counts, 1172-1182  
*Alle alle*, 722-734  
Allen, Jennifer C., et al., Associations of breeding birds with fire-influenced and riparian-upland gradients in a longleaf pine ecosystem, 1110-1128  
allocation, 722-734  
allometry, 722-734, 1004-1012  
Amadon, Dean, see Delacour, J., et al.  
Amakihi, Hawaii, 764-774



## Index to Volume 123

*The Auk* 123(4):1212–1235, 2006  
© The American Ornithologists' Union, 2006.  
Printed in USA.

COMPILED BY TODD J. UNDERWOOD AND ROBYN M. UNDERWOOD

The index is confined primarily to new information. New specific names are printed in **boldface** type.

- 100 Years Ago in the American Ornithologists' Union, 295–296, 611–613, 924–925, 1208–1209
- abundance, 33–44, 183–197, 345–357, 368–382, 438–454, 735–752, 1038–1051, 1110–1128, 1172–1182;  
arthropod –, 171–182
- Accipiter*, 82–96  
*A. cooperii*, 82–96, 431–437, 1069–1076  
*A. gentilis*, 877–884  
*A. nisus*, 163–171, 1069–1076  
*A. striatus*, 82–96, 431–437, 822–835  
Accipitridae, 1069–1076  
acoustic, – advantages, 795–806; – recordings, 587–593  
*Acridotheres tristis*, 764–774, 949–957  
*Acrocephalus*, 419–430  
*A. arundinaceus*, 419–430, 467–474  
*A. melanopogon*, 383–392  
*A. palustris*, 419–430  
*A. schoenobaenus*, 383–392, 524–536, 991–1003  
*Actenoides*, 487–499  
*A. concretus*, 487–499  
*A. lindsayi*, 487–499  
*Actitis macularius*, 524–536, 695–707, 926–936  
*A. hypoleucos*, 926–936  
adaptations, 419–430; ecological –, 1052–1065  
adaptive radiation, 335–344  
advanced glycation endproducts, 870–876  
*Aechmophorus*, 1183–1184  
*Aethia cristatella*, 681–694, 722–734  
*A. psittacula*, 722–734  
*A. pusilla*, 681–694, 722–734  
*A. pygmaea*, 722–734  
Afton, Alan D., see Jónsson, Jón Einar, et al.  
age, 467–474; biological –, 775–783; chronological –, 775–783; – structure, 775–783  
*Agelaioides badius*, 211–234  
*Agelaius assimilis*, 211–234  
*A. humeralis*, 211–234  
*A. phoeniceus*, 135–140, 183–197, 211–234, 431–437, 512–523, 991–1003  
*A. thilius*, 23–32  
*A. tricolor*, 211–234  
*A. xanthomus*, 211–234  
*Agelasticus cyanopus*, 211–234  
*A. thilius*, 211–234  
*A. xanthophthalmus*, 211–234
- aggregation, male –, 247–258  
aggression, 61–66  
aging, 148–152, 775–783, 870–876  
agriculture, 807–821  
Ahlering, Marissa A., and Faaborg, John, Avian habitat management meets conspecific attraction: If you build it, will they come?, 301–312  
Aiama, Deviah M., see Barg, Jennifer J., et al.  
*Aimophila aestivalis*, 1110–1128  
*A. cassinii*, 171–182  
*A. ruficeps*, 512–523  
Ainley, David G., see Dugger, Katie M., et al.  
Alaska, 198–210, 877–884  
*Alauda arvensis*, 949–957  
Albatross, 524–536; Laysan, 681–694; Wandering, 524–536, 775–783; Waved, 524–536, 625–638  
Albertson, Joy D., see Schwarzbach, Steven E., et al.  
*Alca torda*, 722–734  
Alcedinidae, 487–499  
Alcedininae, 487–499  
*Alcedo*, 487–499  
*A. atthis*, 487–499  
*A. azurea*, 487–499  
*A. cristata*, 487–499  
*A. lepidus*, 487–499  
*A. leucogaster*, 487–499  
*A. quadribachys*, 487–499  
Alcidae, 926–936  
alcids, 681–694, 722–734  
*Alcyon azurea*, 487–499  
Alerstam, Thomas, see Nilsson, Anna L. K., et al.  
Alexander, John D., see Frey, Robert L., and –  
Alisauskas, Ray T., see Jónsson, Jón Einar, et al.  
Alisauskas, Ray T., see Traylor, Joshua J., and –  
Alldredge, Mathew W., et al., Estimating detection probabilities from multiple-observer point counts, 1172–1182  
*Alle alle*, 722–734  
Allen, Jennifer C., et al., Associations of breeding birds with fire-influenced and riparian-upland gradients in a longleaf pine ecosystem, 1110–1128  
allocation, 722–734  
allometry, 722–734, 1004–1012  
Amadon, Dean, see Delacour, J., et al.  
Amakihi, Hawaii, 764–774

- Amazon, Yellow-crowned, 108–118  
*Amazona*, 108–118, 660–680  
*A. ochrocephala*, 108–118  
 Amazonia, 660–680  
*Amblycercus holosericeus*, 211–234  
*Amblyramphus holosericeus*, 211–234  
*Ammodramus bairdii*, 301–312, 807–821  
*A. caudacutus*, 885–887  
*A. henslowii*, 183–197  
*A. savannarum*, 183–197, 892–904  
*Amphispiza belli*, 266–274  
*A. b. canescens*, 266–274  
*A. b. nevadensis*, 266–274  
*A. bilineata*, 171–182, 784–794  
 amplitude, 650–659  
 analytical chemistry, 45–60  
*Anas*, 163–171  
*A. laysanensis*, 1–15, 1185–1189  
*A. platyrhynchos*, 45–60, 301–312, 467–474, 548–562, 695–707, 949–957  
*A. strepera*, 67–81  
 Anatidae, 1077–1089  
 ancestral states, 455–466  
 Anderson, Daniel W., review by, 918–920  
 Anderson, David J., see Huyvaert, Kathryn P., et al.  
 Anderson, Stanley Helmer, 1939–2005, In Memoriam, 908–909  
 Anderton, John C., see Rasmussen, Pamela C., and –  
 Andes, 119–134  
 androgen, 548–562  
*Andropadus virens*, 650–659  
 annual cycle, 822–835  
*Anodorhynchus*, 660–680  
*A. leari*, 660–680  
*Anous*, 926–936  
*A. minutus*, 926–936  
*A. stolidus*, 926–936  
*Anser brachyrhynchus*, 313–322  
*A. indicus*, 405–418  
*Anseranas semipalmata*, 1004–1012  
 Antarctica, 858–869  
 Antbird, Spotted, 61–66; White-bellied, 61–66  
 Anthony, R. Michael, see Grand, James B., et al.  
 anthropogenic, 650–659  
*Anthus*, 455–466  
*A. antarcticus*, 455–466  
*A. berthelotti*, 455–466  
*A. bogotensis*, 455–466  
*A. brachyurus*, 455–466  
*A. caffa*, 455–466  
*A. campestris*, 455–466  
*A. cervinus*, 455–466  
*A. cinnamomeus*, 455–466  
*A. correndera catamarcae*, 455–466  
*A. c. correndera*, 455–466  
*A. crenatus*, 455–466  
*A. flaviventris*, 455–466  
*A. furcatus*, 455–466  
*A. godlewski*, 455–466  
*A. gustavi*, 455–466  
*A. hellmayri brasiliensis*, 455–466  
*A. h. hellmayri*, 455–466  
*A. hodgsoni*, 455–466  
*A. hoesci*, 455–466  
*A. leucophrys*, 455–466  
*A. lineiventris*, 455–466  
*A. lutescens*, 455–466  
*A. melindae*, 455–466  
*A. novaeelandiae*, 455–466  
*A. nyassae*, 455–466  
*A. petrosus*, 455–466  
*A. pratensis*, 455–466  
*A. richardi*, 455–466  
*A. roseatus*, 455–466  
*A. rubescens*, 455–466  
*A. rufus*, 455–466  
*A. similis*, 455–466  
*A. sokokensis*, 455–466  
*A. spinoletta*, 455–466  
*A. spragueii*, 455–466, 807–821  
*A. sylvanus*, 455–466  
*A. trivialis*, 455–466  
*A. vaalensis*, 455–466  
 antioxidants, 870–876, 1161–1171  
 Antonov, Anton, et al., Egg rejection in Marsh Warblers (*Acrocephalus palustris*) heavily parasitized by Common Cuckoos (*Cuculus canorus*), 419–430  
 Antshrike, Variable, 887–891  
 AOU Conservation Award, 2005: Thomas E. Lovejoy, 285–287  
 Apapane, 764–774  
*Aphantochroa cirrhochloris*, 1129–1148  
*Aphelocoma coerulescens coerulescens*, 847–857  
*A. coerulescens*, 885–887  
*A. ultramarina*, 885–887  
*A. unicolor*, 885–887  
 Apodiformes, 1129–1148  
*Aptenodytes forsteri*, 858–869  
*A. patagonicus*, 524–536, 858–869  
*Aquila chrysaetos*, 877–884  
 Arad, Zeev, see Tsahar, Ella, et al.  
*Aratinga*, 660–680  
 Arcese, Peter, see Wilson, Scott, and –  
*Archilochus alexandri*, 1004–1012  
*A. colubris*, 892–904  
 Arctic breeding grounds, 313–322, 323–334  
*Ardea herodias*, 393–404, 695–707  
 Argentina, 358–367  
 Arkansas, 1–15, 587–593, 1185–1189, 1189  
*Arremonops rufivirgatus*, 171–182  
 arthropod biomass, 358–367  
*Asio flammeus*, 625–638  
*A. f. sandwichensis*, 753–763  
*A. otus*, 892–904  
 assessment, rapid –, 695–707

- Astíe, Andrea A., and Rebores, Juan C., Costs of egg punctures and parasitism by Shiny Cowbirds (*Molothrus bonariensis*) at Creamy-bellied Thrush (*Turdus amaurochalinus*) nests, 23–32
- Asturina*, 926–936
- A. nitida*, 926–936
- Athene noctua*, 949–957
- Atkinson, Carter T., see Kilpatrick, A. Marm, et al.
- attendance, parental –, 708–721
- Auklet, Cassin's, 681–694; Crested, 681–694, 722–734; Least, 681–694, 722–734; Parakeet, 722–734; Rhinoceros, 722–734; Whiskered, 722–734
- Aulacorhynchus prasinus*, 847–857
- availability, food –, 722–734; fruit –, 247–258; prey –, 681–694
- avifaunas, montane –, 119–134
- Avilés, Jesús M., see Rutila, Jarkko, et al.
- avocets, 1183–1184
- bacterial cells, 1161–1171
- Baeolophus bicolor*, 991–1003, 1110–1128, 1172–1182
- B. wollweberi*, 512–523
- Bailey, Larissa L., see MacKenzie, Darryl I., et al.
- Baker, Allan J., et al., Relationships of gulls—A reply to Bourne, 906–907
- Bakermans, Marja H., and Rodewald, Amanda D., Scale-dependent habitat use of Acadian Flycatcher (*Empidonax virescens*) in central Ohio, 368–382
- Ballard, Grant, see Dugger, Katie M., et al.
- Bananaquit, 1022–1037
- band effects, 858–869
- Banks, Richard C., et al., Forty-seventh Supplement to the American Ornithologists' Union Check-list of North American Birds, 926–936
- Barg, Jennifer J., et al., Within-territory habitat use and microhabitat selection by male Cerulean Warblers (*Dendroica cerulea*), 795–806
- Barker Swarthout, Sara, see Fitzpatrick, John W., et al.
- Barksdale, Timothy R., see Fitzpatrick, John W., et al.
- Barrowclough, George F., et al., Genetic structure of Mexican Spotted Owl (*Strix occidentalis lucida*) populations in a fragmented landscape, 1090–1102
- Barton, Kerry J., see Dugger, Katie M., et al.
- Bartramia longicauda*, 183–197
- behavior, 108–118; display –, 967–990; foraging –, 162–170, 858–869; incubation –, 708–721
- behavioral plasticity, 650–659
- Beier, Paul, and Tungbani, Agba Issahaku, Nesting with the wasp *Ropalidia cincta* increases nest success of Red-cheeked Cordonbleu (*Uraeginthus bengalus*) in Ghana, 1022–1037
- Benowitz-Fredericks, Z Morgan, et al., Growth and allocation in captive Common Murre (*Uria aalge*) chicks, 722–734
- Bernis, Francisco, 1916–2003, In Memoriam, 1190–1191
- Béty, Joël, see Mainguy, Julien, et al.
- Big Woods, 1–15, 587–593
- Bingham, Ralph L., see Flanders, Aron A., et al.
- biogeography, 487–499, 660–680, 906–907
- bioinformatics, 967–990
- biological species concept, 885–887, 887–891
- biology, breeding –, 135–140, 753–763; population –, 625–638
- biomass, 722–734
- bird of paradise, 967–990
- BirdLife International, Birds in Europe: Population Estimates, Trends and Conservation Status (rev.), 915–916
- Birkhead, Timothy R., et al., Unusual sperm morphology in the Eurasian Bullfinch (*Pyrrhula pyrrhula*), 383–392
- bison, 183–197
- Blackbird, 211–234, 949–957; Eurasian, 163–171, 383–392; Red-winged, 135–140, 183–197, 431–437, 512–523, 991–1003; Yellow-winged, 23–32
- Blackcap, 313–322, 383–392, 537–547, 1069–1076
- Black-Hawk, Common, 892–904
- Blake, John G., see Ryder, Thomas B., et al.
- bleach, 962–966
- Blickley, Jessica L., see Patricelli, Gail L., and – blood, 1161–1171; – parasites, 548–562
- Bluebird, Eastern, 500–511, 1110–1128
- Bluhm, Cynthia K., see Jönsson, Jón Einar, et al.
- Bobolink, 301–312, 991–1003
- Bobwhite, Northern, 171–182
- Bock, Walter J., In Memoriam: James L. Gullledge, 1932–2001, 597–598
- body, – condition, 405–418; duckling – size, 67–81; – mass, 563–574, 681–694, 695–707, 722–734, 836–846, 1004–1012, 1069–1076; – size, 323–334, 383–392, 405–418, 467–474
- B–OH butyrate, 836–846
- Bombycilla cedrorum*, 836–846, 1004–1012
- Bonasa umbellus*, 148–152, 870–876
- Booby, Blue-footed, 625–638; Red-footed, 625–638
- Bosque del Apache, 431–437
- Bourne, William R. P., Relationships of the masked gulls, 905–906
- Brambling, 259–265, 537–547
- Brant, Black, 1077–1089
- Branta bernicla*, 1077–1089
- B. canadensis*, 405–418, 695–707
- B. c. occidentalis*, 198–210
- B. leucopsis*, 1077–1089
- breeding, 235–246; – biology, 135–140; – bird assemblages, 1110–1128; – Bird Census, 892–904; – Bird Survey, 892–904; – birds, 171–182, 1110–1128; captive –, 753–763; cooperative –, 847–857; – geography, 431–437; – latitude, 455–466; – performance, 467–474; – population, 393–404; – success, 97–107; timing of –, 512–523, 784–794
- Brennan, Leonard A., see Flanders, Aron A., et al.
- Brewster Memorial Award, 2005: Robert M. Zink, 282–283

- Brigham, R. Mark, see Davis, Stephen K., et al.
- Briskie, James V., Introduced birds as model systems for the conservation of endangered native birds, 949-957
- brood, - movements, 1077-1089; - patch, 405-418; - size, 67-81; - survival, 67-81
- Brook, Barry W., see Sodhi, Navjot S., et al.
- Brush, Timothy, Nesting Birds of a Tropical Frontier: The Lower Rio Grande Valley of Texas (rev.), 1199-1201
- Bubo virginianus*, 877-884, 892-904
- Buckland, Stephen T., Point-transect surveys for songbirds: Robust methodologies, 345-357
- Budgerigar, 108-118, 1004-1012
- Buhl, Deborah A., see Krapu, Gary L., et al.
- Bulbul, Yellow-vented, 1004-1012
- Bullfinch, 335-344; Barbados, 926-936; Beavan's, 383-392; Eurasian, 358-367, 383-392
- Bunting, Cirl, 949-957; Corn, 383-392, 419-430; Indigo, 301-312, 1110-1128; Snow, 708-721
- Burnham, William, see Cade, Tom J., and - burning, 183-197
- Bush, Sarah E., et al., Is melanin a defense against feather-feeding lice?, 153-161
- Buteo*, 926-936
- B. galapagoensis*, 625-638
- B. jamaicensis*, 892-904
- B. magnirostris*, 926-936
- B. nitidus*, 926-936
- B. platypterus*, 82-96, 847-857, 892-904, 926-936
- B. regalis*, 877-884
- B. swainsoni*, 625-638
- Buteogallus anthracinus*, 892-904
- Buzas, Jeffrey, see Donovan, Therese, et al.
- Bylot Island, 1077-1089
- Byrd, G. Vernon, see Major, Heather L., et al.
- Byrd, Mitchell A., see Watts, Bryan D., et al.
- Cacatua*, 108-118
- C. leadbeateri*, 108-118
- C. moluccensis*, 108-118
- Cacatuidae, 108-118
- Cacicus cela*, 211-234, 1022-1037
- Cacique, Yellow-rumped, 1022-1037
- Cade, Tom J., and Burnham, William, Return of the Peregrine: A North American Saga of Tenacity and Teamwork (rev.), 918-920
- Cade, Tom J., review by, 920-923
- Calcarius mccownii*, 926-936
- C. ornatus*, 807-821
- C. pictus*, 383-392
- calidrid, 323-334
- calidridine, 313-322
- Calidris*, 323-334
- C. alba*, 313-322
- C. alpina*, 313-322
- C. bairdii*, 313-322, 323-334
- C. canutus hudsonia*, 313-322
- C. c. roselaari*, 313-322
- C. c. rufa*, 313-322
- C. fuscicollis*, 313-322, 323-334
- C. himantopus*, 313-322
- C. mauri*, 563-574, 836-846
- C. melanotos*, 313-322
- C. minutilla*, 313-322
- C. pusilla*, 313-322, 323-334
- call structure, 1129-1148
- Callaway (Galloway?), Jack Davies Goodall, In Memoriam, 1892 (1893?)-1980, 594-595
- Calocitta formosa*, 847-857
- Calonectris diomedea*, 926-936
- C. edwardsii*, 926-936
- Calypte anna*, 1004-1012, 1129-1148
- C. costae*, 1004-1012
- Calyptorhynchus*, 108-118
- Camarhynchus*, 625-638
- C. crassirostris*, 625-638
- Campephilus*, 1-15, 587-593
- C. principalis*, 1-15, 587-593, 1185-1189, 1189
- Campylorhynchus brunneicapillus*, 892-904
- C. rufinucha*, 1022-1037
- C. nuchalis*, 847-857
- Canace obscura* var. *fuliginosa*, 926-936
- Canada, 323-334
- Canaday, Chris, see Dingle, Caroline, et al.
- Canadian prairie parklands, 467-474
- Caprimulgus vociferus*, 892-904
- capture-recapture, 1172-1182
- Cardinal, Northern, 16-22, 991-1003, 1110-1128
- Cardinalis cardinalis*, 16-22, 991-1003, 1110-1128
- Carduelini, 335-344
- Carduelis cannabina*, 383-392, 537-547
- C. carduelis*, 383-392
- C. chloris*, 163-171, 548-562, 949-957
- C. flammea*, 548-562
- C. tristis*, 1110-1128, 1161-1171
- Caro, Tim, Antipredator Defenses in Birds and Mammals (rev.), 601-605
- carotenoid pigmentation, 1161-1171
- Carpodacus mexicanus*, 537-547, 639-649, 892-904, 949-957
- C. purpureus*, 892-904
- Carridonax*, 487-499
- carrying capacity, 393-404
- Carya* spp., 795-806
- Catbird, Gray, 1069-1076
- Cathartes aura*, 892-904
- Catharus*, 455-466, 1052-1068
- C. aurantirostris*, 1052-1068
- C. bicknelli*, 431-437, 1038-1051, 1052-1068
- C. dryas*, 1052-1068
- C. frantzii*, 1052-1068
- C. fuscater*, 1052-1068
- C. fuscescens*, 1052-1068
- C. gracilirostris*, 1052-1068
- C. guttatus*, 735-752, 1052-1068

- C. mexicanus*, 926-936  
*C. minimus*, 1052-1068  
*C. occidentalis*, 1052-1068  
*C. ustulatus*, 431-437, 1052-1068  
*Catoptrophorus*, 926-936  
*Cephus columba*, 722-734  
 Cerasale, David J., and Guglielmo, Christopher G.,  
     Dietary effects on prediction of body mass  
     changes in birds by plasma metabolites, 836-846  
*Cercotrichas galactotes*, 419-430  
*Cerorhinca monocerata*, 722-734  
*Ceryle alcyon*, 487-499, 892-904  
*C. maxima*, 487-499  
*C. rudis*, 487-499  
*C. torquata*, 487-499  
*Cerylinae*, 487-499  
*Ceycoides madagascariensis*, 487-499  
*Ceyx*, 487-499  
*C. azurea*, 487-499  
*C. erithaca*, 487-499  
*C. lecontei*, 487-499  
*C. lepidus*, 487-499  
*C. madagascariensis*, 487-499  
*C. picta*, 487-499  
*C. pictus*, 487-499  
 Chaco-Finch, Many-colored, 358-367  
 Chaffinch, 163-171, 991-1003; Common, 345-357,  
     383-392, 537-547  
 Charadriidae, 313-322  
*Charadrius vociferus*, 695-707  
 Charif, Russell A., see Fitzpatrick, John W., et al.  
 Chat, Rufous Bush, 419-430; Yellow-breasted, 211-234,  
     301-312  
*Chen caerulescens atlantica*, 1077-1089  
*C. c. caerulescens*, 405-418, 1077-1089  
*C. rossii*, 405-418, 1077-1089  
 Chernetsov, Nikita, et al., Sex-related natal dispersal of  
     White Storks (*Ciconia ciconia*) in Poland: How far  
     and where to?, 1103-1109  
 Chesapeake Bay, 393-404  
 Chickadee, Black-capped, 438-454, 892-904, 1090-  
     1102, 1149-1160; Carolina, 1110-1128, 1149-1160  
 chicken, 45-60, 625-638, 708-721, 1004-1012, 1161-1171  
 Chiffchaff, Common, 383-392  
*Chiroxiphia*, 247-258  
*Chlidonias*, 926-936  
*C. hybrida*, 926-936  
*C. leucopterus*, 926-936  
*C. niger*, 926-936  
*Chloridops*, 335-344  
*C. kona*, 335-344  
*C. regiskongi*, 335-344  
*C. wahi*, 335-344  
*Chloroceryle*, 487-499  
*C. aenea*, 487-499  
*C. amazona*, 487-499  
*C. americana*, 487-499  
*C. inda*, 487-499  
*Chlorostilbon canivetii*, 885-887  
*Chondestes grammacus*, 171-182  
*C. minor*, 892-904  
 Chough, White-winged, 847-857  
 Chromik, Wieslaw, see Chernetsov, Nikita, et al.  
*Chrysococcyx caprius*, 467-474  
*Chrysomus icterocephalus*, 211-234  
*C. ruficapillus*, 211-234  
 Cicero, Carla, and Johnson, Ned K., Diagnosability  
     of subspecies: Lessons from Sage Sparrows  
     (*Amphispiza belli*) for analysis of geographic  
     variation in birds, 266-274  
 Cicero, Carla, see Banks, Richard C., et al.  
*Ciconia ciconia*, 524-536, 1103-1109  
 Cimprich, David A., and Moore, Frank R., Fat affects  
     predator-avoidance behavior in Gray Catbirds  
     (*Dumetella carolinensis*) during migratory  
     stopover, 1069-1076  
*Cinclus mexicanus*, 892-904  
*Cistothorus platensis*, 991-1003  
*Cittura*, 487-499  
*C. cyanotis*, 487-499  
 cladistic analysis, 1183-1184  
*Clamator glandarius*, 16-22  
 Clark, Robert G., see Mack, Glenn G., and -  
     classification, 887-891  
 Clayton, Dale H., see Bush, Sarah E., et al.  
 Clement, Roland C., review by, 608-609  
 climate, 784-794  
 cloacal protuberance, 383-392  
 cloud cover, 537-547  
 clutch, - size, 97-107, 405-418, 753-763, 1013-1021;  
     - volume, 405-418  
*Clytoceyx*, 487-499  
*C. rex*, 487-499  
*Coccyua*, 926-936  
*C. minuta*, 926-936  
*Coccyzinae*, 926-936  
*Coccyzus*, 926-936  
*C. americanus*, 171-182, 926-936  
*C. erythrophthalmus*, 926-936  
*C. euleri*, 926-936  
*C. ferrugineus*, 926-936  
*C. longirostris*, 926-936  
*C. melacoryphus*, 926-936  
*C. merlini*, 926-936  
*C. minor*, 926-936  
*C. minutus*, 926-936  
*C. plumbeus*, 926-936  
*C. ruficularis*, 926-936  
*C. vetula*, 926-936  
*C. vieilloti*, 926-936  
 Cochrane, Robert L., see Fallon, Jesse A., et al.  
 Cockatoo, Pink, 108-118; Salmon-crested, 108-118  
*Coereba flaveola*, 1022-1037  
 coevolution, 419-430  
 coevolutionary arms race, 419-430  
*Colaptes auratus*, 885-887, 1110-1128



- C. mexicanoides*, 885–887  
*Colinus virginianus*, 171–182  
 Collar, Nigel J., review by, 599–600  
 Collared-Dove, African, 926–936  
 Collazo, Jaime A., see Allen, Jennifer C., et al.  
 collection, skin –, 148–152  
 Collopy, Michael W., see McIntyre, Carol L., and –  
 colonization, 1149–1160; – rate, 393–404  
 coloration, 1161–1171  
*Columba livia*, 153–161, 625–638  
*C. roseogrisea*, 926–936  
 Columbiformes, 153–161  
 comb, 1161–1171  
 commensalism, 1022–1037  
 communication, 639–649, 650–659, 1129–1148  
 comparative method, 211–234  
 competition, 61–66; interference –, 958–961; intersexual –, 235–246; male–male –, 639–649; sperm –, 383–392  
 Condor, California, 1–15  
 Confer, John L., Secondary contact and introgression of Golden-winged Warblers (*Vermivora chrysoptera*): Documenting the mechanism, 958–961  
 connectivity, population –, 822–835  
 Conroy, Michael J., review by, 1205–1207  
 conservation, 1–15, 275–277, 313–322, 500–511, 587–593, 639–649, 695–707, 735–752, 795–806, 807–821, 892–904, 949–957, 1090–1102, 1110–1128, 1149–1160, 1185–1189; island –, 681–694; – medicine, 625–638; – status, 33–44  
 conspecific attraction, 301–312  
 contaminants, 45–60  
*Contopus virens*, 1110–1128  
 Contreras, Alan L., see Marshall, David B., et al.  
*Conuropsis carolinensis*, 148–152  
 Copper River Delta, 198–210  
*Coracias caudata*, 487–499  
*C. caudatus*, 487–499  
*C. garrulus*, 487–499  
 Coraciidae, 487–499  
 coraciiforms, 487–499  
*Coracorax melanorhamphos*, 847–857  
 Cordonbleu, Blue-breasted, 1022–1037; Red-cheeked, 1022–1037  
 core area, 795–806  
 Cormorant, 1183–1184; Double-crested, 695–707, 870–876; Galápagos Flightless, 625–638  
 Cornell Laboratory of Ornithology, 1–15  
 corridor, 1149–1160  
 corvids, 368–382, 383–392  
*Corvus albus*, 1022–1037  
*C. brachyrhynchos*, 82–96, 368–382, 512–523, 587–593  
*C. caurinus*, 784–794  
*C. corax*, 512–523, 587–593, 892–904  
*C. cornix*, 537–547  
*C. corone*, 383–392  
*C. frugilegus*, 383–392  
*C. monedula*, 537–547  
*Corythornis*, 487–499  
*C. cristata*, 487–499  
*C. leucogaster*, 487–499  
*C. madagascariensis*, 487–499  
 Coues Award, 2005: Nicholas B. (Nick) Davies, 281–282  
 counter-adaptations, 419–430  
 countersinging, 991–1003  
 courtship, 967–990  
 Cowbird, 23–32; Bronzed, 16–22, 23–32; Brown-headed, 16–22, 23–32, 82–96, 183–197, 419–430, 512–523, 548–562, 784–794, 892–904, 1110–1128; Screaming, 16–22, 23–32; Shiny, 16–22, 23–32, 419–430  
 Crane, Whooping, 1–15  
 cross-infections, 141–147  
 Crow, American, 82–96, 368–382, 512–523, 587–593; Carrion, 383–392; Hooded, 537–547; Northwestern, 784–794; Pied, 1022–1037  
 crypsis, female –, 162–170  
 Cuckoo, 926–936; Bay-breasted, 926–936; Black-billed, 926–936; Chestnut-bellied, 926–936; Cocos, 926–936; Common, 16–22, 259–265, 419–430; Dark-billed, 926–936; Diederik, 467–474; Great Spotted, 16–22; Himalayan, 926–936; Horsfield's, 926–936; Little, 926–936; Mangrove, 926–936; Oriental, 926–936; Pearly-breasted, 926–936; Squirrel, 926–936; Striped, 16–22; Sunda, 926–936; Yellow-billed, 171–182, 926–936  
 Cuculidae, 926–936  
 Cuculinae, 926–936  
*Cuculus canorus*, 16–22, 259–265, 419–430  
*C. lepidus*, 926–936  
*C. monachus*, 926–936  
*C. optatus*, 926–936  
*C. saturatus*, 926–936  
*C. s. horsfieldi*, 926–936  
 Cueto, Victor R., et al., Seed preferences in sparrow species of the Monte Desert, Argentina: Implications for seed–granivore interactions, 358–367  
*Curaeus curaeus*, 211–234  
*C. forbesi*, 211–234  
*Cyanistes caeruleus*, 211–234, 537–547, 548–562, 1013–1021  
*Cyanocitta cristata*, 1–15, 82–96, 368–382, 438–454, 587–593, 892–904, 1110–1128  
*Cyanocorax morio*, 847–857  
*Cyphorhinus aradus*, 119–134  
  
*Dacelo*, 487–499  
*D. gaudichaud*, 487–499  
*D. leachii*, 487–499  
*D. novaguineae*, 487–499  
 Daceloninae, 487–499  
 Dantzker, Marc S., see Fitzpatrick, John W., et al.  
 Darwin's finches, 625–638  
 Davidar, Priya, and Morton, Eugene S., Are multiple infections more severe for Purple Martins (*Progne subis*) than single infections?, 141–147

- Davies, Nicholas B. (Nick), 281–282
- Davis, Stephen K., et al., Mixed-grass prairie passerines exhibit weak and variable responses to patch size, 807–821
- de Juana, Eduardo, and Tellería, José Luis, In Memoriam: Francisco Bernis, 1916–2003, 1190–1191
- Dearborn, Donald C., see Juola, Frans A., et al.
- defensive mechanisms, 259–265
- deforestation, 275–277
- deformities, 45–60
- del Hoyo, Josep, see Delacour, J., et al.
- Delacour, J., et al., Curassows and Related Birds (rev.), 599–600
- demography, 33–44, 512–523, 784–794
- Denali, 877–884
- Dendragapus fuliginosus*, 926–936
- Dendrocolaptidae, 926–936
- Dendroica*, 1052–1068
- D. caerulescens*, 313–322, 431–437
- D. cerulea*, 438–454, 795–806
- D. chrysoparia*, 1038–1051
- D. coronata*, 438–454, 836–846
- D. discolor*, 301–312, 500–511, 1110–1128
- D. dominica*, 1110–1128
- D. petechia*, 16–22, 431–437, 625–638, 708–721
- D. pinus*, 500–511, 1110–1128
- D. townsendi*, 735–752
- D. virens*, 438–454
- Dendronanthus*, 455–466
- density, 438–454; – dependence, 1103–1109; – estimation, 695–707; – estimator, 735–752; population –, 1103–1109
- Deroptus*, 660–680
- desertion, nest –, 259–265
- detectability, 438–454, 1038–1051
- detection, – probability, 695–707, 735–752, 1172–1182; – rates, 892–904
- development, 722–734
- Deviche, Pierre, and Parris, Jennifer, Testosterone treatment to free-ranging male Dark-eyed Juncos (*Junco hyemalis*) exacerbates hemoparasitic infection, 548–562
- Dial, Ken, review by, 1198–1199
- Diamond, Tony, In Memoriam: Raymond Joseph O'Connor, 1944–2005, 1193–1195
- dichromatism, sexual –, 162–170
- Dickcissel, 183–197
- Dickinson, Edward C., review by, 916–918
- diet, 108–118, 235–246, 836–846, 870–876, 1161–1171; – composition, 722–734
- differences, among-population –, 259–265
- digestive recycling, 1004–1012
- Dingle, Caroline, et al., Elevational zonation and the phylogenetic relationships of the *Henicorhina* wood-wrens, 119–134
- Diomedea exulans*, 524–536, 775–783
- Dipper, American, 892–904
- direct benefits, 475–486
- discrete-time models, 198–210
- discriminant function, 500–511
- disease, 625–638, 764–774, 949–957; – resistance, 575–586; – severity, 141–147
- dispersal, 500–511, 847–857, 1103–1109; – direction, 1103–1109; natal –, 500–511, 1103–1109
- distribution mapping, 1038–1051
- Diuca diuca*, 358–367
- Diuca-Finch, Common, 358–367
- diversification, 660–680
- diversity, genetic –, 949–957, 1090–1102
- Dives*, 211–234
- D. atrovioleacea*, 211–234
- D. dives*, 211–234
- D. warszewiczii*, 211–234
- diving birds, 1183–1184
- DNA, – fingerprinting, 524–536; mitochondrial –, 119–134, 211–234, 487–499, 660–680, 906–907, 958–961, 1052–1068, 1090–1102; nuclear –, 487–499; – sequences, 487–499, 1052–1065
- Dolata, Paweł T., see Chernetsov, Nikita, et al.
- Dolichonyx oryzivorus*, 301–312, 991–1003
- domestication, 1161–1171
- Donovan, Therese, et al., Tracking dispersal in birds: Assessing the potential of elemental markers, 500–511
- Dorr, Brian, see Fallon, Jesse A., et al.
- Dove, Barbary, 926–936; Galápagos, 625–638; Laughing, 1022–1037; Mourning, 183–197, 512–523, 1110–1128; White-winged, 171–182, 822–835
- Drepanidini, 335–344, 764–774
- Dryocopus martius*, 587–593
- D. pileatus*, 1–15, 587–593, 1185–1189
- D. p. pileatus*, 587–593
- Duck, 163–171, 467–474, 695–707, 892–904, 1077–1089; Laysan, 1–15, 1185–1189
- Dugger, Katie M., et al., Effects of flipper bands on foraging behavior and survival of Adélie Penguins (*Pygoscelis adeliae*), 858–869
- Dumetella carolinensis*, 1069–1076
- Dunlin, 313–322
- Dunn, Jon L., see Banks, Richard C., et al.
- Dunnoch, 383–392, 991–1003
- Eagle, Bald, 198–210, 393–404, 695–707, 877–884; Golden, 877–884
- Eaton, Muir D., A phylogenetic perspective on the evolution of chromatic ultraviolet plumage coloration in grackles and allies (Icteridae), 211–234
- Eck, Siegfried, 1942–2005, In Memoriam, 910–911
- ecological factors, 405–418
- ecology, behavioral –, 625–638; population –, 1103–1109
- ecomorphology, 1052–1068
- ectoparasites, 153–161
- Ectopistes migratorius*, 148–152
- edge distance, 807–821
- effective area surveyed, 735–752



- egg, - destruction, 16-22; first - date, 405-418; foreign -, 419-430; - laying dates, 524-536; - puncture, 16-22, 23-32; - recognition, 259-265; - rejection, 259-265, 419-430; - removal, 16-22
- Eider, Common, 67-81, 405-418, 575-586; King, 67-81
- El Halawani, Mohamed E., see Jónsson, Jón Einar, et al.
- El Niño, 512-523; - Southern Oscillation, 784-794
- Elanoides forficatus*, 847-857
- Eldridge, Jan L., see Krapu, Gary L., et al.
- element analysis, 500-511
- elevation, 512-523, 1038-1051
- Elner, Robert W., see Seaman, Dana A. Acevedo, et al.
- Emberiza calandra*, 383-392
- E. cirrus*, 949-957
- E. citrinella*, 383-392, 949-957
- Emberizidae, 358-367
- Emberizini, 335-344
- Empidonax difficilis*, 735-752, 885-887, 892-904
- E. minimus*, 438-454, 708-721
- E. traillii extimus*, 892-904
- E. virescens*, 368-382, 1110-1128
- endangered species, 587-593, 949-957, 1189
- endemic, - birds, 625-638; - species, 487-499
- Enderson, Jim, Peregrine Falcon: Stories of the Blue Meanie (rev.), 608-609
- endogenous reserves, 405-418
- Endomychura craveri*, 335-344
- endoparasites, 625-638
- Entomolestes*, 1052-1068
- E. leucotis*, 1052-1068
- environmental, - changes, 877-884; - conditions, 858-869, 1013-1021; - factors, 639-649, 708-721
- Eos bornea*, 108-118, 1004-1012
- Erethacus rubecula*, 345-357, 537-547, 1069-1076
- Erratum, 610
- estimation, survival -, 67-81
- Estrilda caerulea*, 1022-1037
- estrildid, 1022-1037
- ethology, 967-990
- Eudryptes schlegelii*, 858-869
- Eugenes fulgens*, 1004-1012
- Euphagus carolinus*, 211-234
- E. cyanocephalus*, 211-234
- evolution, 487-499, 764-774, 1183-1184; convergent -, 1052-1065, 1183-1184; - of migration, 455-466, 537-547; parallel -, 1052-1068
- evolutionary, - change, 639-649; - history, 887-891; - precursor hypothesis, 455-466
- exponential growth, 393-404
- extinction, 335-344, 587-593; patch -, 1149-1160
- extirpation, 958-961
- extrapair, - copulations, 524-536; - paternity, 524-536
- extrinsic factors, 67-81
- Faaborg, John, see Ahlering, Marissa A., and -
- face pattern, 962-966
- Fairy-wren, Superb, 524-536, 548-562
- Falcipecten canadensis*, 500-511
- Falco peregrinus*, 500-511, 822-835, 877-884
- F. punctatus*, 949-957
- Falcon, 1069-1076, 1183-1184; Peregrine, 500-511, 822-835, 877-884
- Falconidae, 1069-1076
- Fallon, Jesse A., et al., Interspecies comparison of pentosidine accumulation and its correlation with age in birds, 870-876
- Fallon, Jesse A., et al., Stability of pentosidine concentrations in museum study skins, 148-152
- fat, 1069-1076; - deposition, 313-322; - load, 313-322; - storage, 323-334
- fattening rate, 563-574
- feathers, 500-511, 822-835, 962-966
- fecundity, seasonal -, 512-523
- Fedy, Bradley C., and Stutchbury, Bridget J. M., Testosterone does not increase in response to conspecific challenges in the White-bellied Antbird (*Myrmeciza longipes*), a resident tropical passerine, 61-66
- feeding, 162-170; - experiments, 358-367; - preferences, 153-161
- Ferreira, Adriana R. J., et al., Vocalizations and associated behaviors of the Sombre Hummingbird (*Aphantochroa cirrhochloris*) and the Rufous-breasted Hermit (*Glaucis hirsutus*), 1129-1148
- Ficedula albicilla*, 926-936
- F. albicollis*, 97-107
- F. hypoleuca*, 97-107, 163-171, 301-312, 512-523, 1103-1109
- F. parva*, 926-936
- filarial nematode, 141-147
- Finch, 335-344, 949-957, 1022-1037, 1129-1148; Bengalese, 383-392; Cactus, 625-638; Double-barred, 1022-1037; House, 537-547, 639-649, 892-904, 949-957; Large Cactus, 625-638; Large Ground, 625-638; Medium Ground, 625-638; Purple, 892-904; Small Ground, 625-638; Vegetarian, 625-638; Zebra, 383-392, 775-783, 1004-1012, 1161-1171
- fire, 183-197, 1110-1128; - suppression, 33-44
- Firecrown, Green-backed, 1004-1012
- fisheries, 393-404
- fitness, 575-586, 639-649, 764-774, 847-857, 858-869, 949-957, 1077-1089
- Fitzpatrick, John W., et al., Clarifications about current research on the status of Ivory-billed Woodpecker (*Campephilus principalis*) in Arkansas, 587-593
- Fitzpatrick, John W., et al., Response to letter by J. A. Jackson, 1189
- flamingos, 1183-1184
- Flanders, Aron A., et al., Effects of invasive exotic grasses on south Texas rangeland breeding birds, 171-182
- fledging success, 97-107, 475-486
- fledgling, 877-884; - survival, 764-774

- Fletcher, Robert J., Jr., and Hutto, Richard L.,  
Estimating detection probabilities of river birds  
using double surveys, 695-707
- Flicker, Northern, 1110-1128  
flight performance, 1069-1076  
flipper bands, 858-869  
flooding, 45-60
- Flycatcher, Acadian, 368-382, 1110-1128; Collared,  
97-107; Great Crested, 1110-1128; Least, 438-454,  
708-721; Pacific-slope, 735-752, 892-904; Pied,  
97-107, 163-171, 301-312, 512-523, 1103-1109;  
Red-breasted, 926-936; Red-throated, 926-936;  
Southwestern Willow, 892-904; Taiga, 926-936
- Fondell, Thomas F., see Grand, James B., et al.
- food, - availability, 722-734; - intake, 722-734; - loads,  
858-869; - supplementation, 97-107
- foot structure, 1183-1184
- foraging, - behavior, 235-246, 858-869; central-place  
-, 247-258; - sites, 1077-1089; - strategies, 1129-  
1148; - substrate, 235-246; - success, 247-258;  
- technique, 235-246
- forest, - birds, 301-312; boreal -, 438-454; bottomland  
hardwood -, 1-15; core -, 82-96; - fragments,  
301-312; mature -, 587-593; Neotropical -, 660-  
680; riparian -, 368-382; virgin -, 1-15
- Forest-Falcons, Collared, 847-857
- Formicariidae, 61-66
- Forpus passerinus*, 708-721
- fossil birds, 335-344
- Foster, Jeffrey T., see Tweed, Erik J., et al.
- Fowl, Jungle, 660-680
- fragmentation, 807-821, 1149-1160
- Fratercula arctica*, 681-694, 722-734
- F. cirrhata*, 681-694, 722-734
- F. corniculata*, 722-734
- Freckleton, Robert, see Birkhead, Timothy R., et al.
- Fregata minor*, 625-638, 775-783
- Fregetta*, 926-936
- F. grallaria*, 926-936
- F. tropica*, 926-936
- Frey, Robert I., and Alexander, John D., review by,  
1203-1205
- Frigatebird, Great, 625-638, 775-783; Magnificent,  
625-638
- Fringilla coelebs*, 163-171, 335-344, 345-357, 383-392,  
537-547, 991-1003
- F. montifringilla*, 259-265, 537-547
- Fringillidae, 335-344, 383-392
- Fringillini, 335-344
- frugivores, 1004-1012
- Fulbright, Timothy E., see Flanders, Aron A., et al.
- Fulmar, Northern, 524-536
- Fulmarus glacialis*, 524-536
- Furnariidae, 926-936
- Furnarius rufus*, 419-430
- Gadwall, 67-81
- Galápagos finches, 625-638
- Galápagos Islands, 625-638
- Gallagher, Tim W., see Fitzpatrick, John W., et al.
- Galliformes, 1183-1184
- Gallus domesticus*, 45-60, 405-418
- G. gallus*, 625-638, 660-680, 1161-1171
- G. g. domesticus*, 708-721, 1004-1012, 1161-1171
- García-Fraile, Sonia, see Tomás, Gustavo, et al.
- Garrulus glandarius*, 512-523
- Garton, Edward O., see Kissling, Michelle L., and -  
Gauthier, Gilles, see Mainguy, Julien, et al.
- geese, 405-418
- Gelochelidon*, 926-936
- G. nilotica*, 926-936
- gene flow, 1090-1102
- genetic, - distances, 660-680; - diversity, 949-957
- genetics, population -, 1090-1102
- Geococcyx californianus*, 171-182
- geographic information systems, 822-835, 1038-1051
- George, John Caleekal, 1921-2005, In Memoriam, 279-280
- Geositta*, 926-936
- Geospiza*, 625-638
- G. conirostris*, 625-638
- G. fortis*, 625-638
- G. fuliginosa*, 625-638
- G. scandens*, 625-638
- Geothlypis trichas*, 431-437, 892-904, 1110-1128
- Gibbs, H. Lisle, see Donovan, Therese, et al.
- Giroux, Jean-François, see Mainguy, Julien, et al.
- Given, Andrew D., see Baker, Allan J., et al.
- Glaucidium minutissimum*, 885-887
- Glaucis hirsutus*, 1129-1148
- Gnatcatcher, Blue-gray, 1110-1128
- Gnorimopsar chopi*, 211-234
- Godwit, Bar-tailed, 313-322; Black-tailed, 313-322
- Golden-Plover, American, 313-322
- Goldfinch, American, 1110-1128, 1161-1171;  
European, 383-392
- Goose, 405-418, 1077-1089; Bar-headed, 405-418;  
Barnacle, 1077-1089; Canada, 405-418, 695-707;  
Dusky Canada, 198-210; Greater Snow, 1077-  
1089; Lesser Snow, 405-418, 1077-1089; Magpie,  
1004-1012; Pink-footed, 313-322; Ross's, 405-418,  
1077-1089; Snow, 405-418
- Goshawk, Northern, 877-884
- goslings, 1077-1089
- Götmark, Frank, see Post, Peter, and -
- Grackle, 211-234; Boat-tailed, 708-721; Common,  
135-140, 892-904; Tristram's, 1004-1012
- Granbom, Martin, and Smith, Henrik G., Food  
limitation during breeding in a heterogeneous  
landscape, 97-107
- Grand, James B., et al., Nest survival in Dusky Canada  
Geese (*Branta canadensis occidentalis*): Use of  
discrete-time models, 198-210
- granivory, 358-367
- grasses, exotic, 171-182
- grassland birds, 183-197, 301-312, 807-821;  
- populations, 171-182

- Grassquits, Dull-colored, 1022-1037  
 Gratto-Trevor, Cheri L., see Krapu, Gary L., et al.  
 grazing, 183-197  
 grebes, 1183-1184  
 Greenbul, Little, 650-659  
 Greenfinch, 949-957; European, 163-171, 548-562  
 Greenshank, Common, 926-936  
 Grier, James W., see Leichty, Ellen R. and -  
 Griffin, Donald R., In Memoriam, 1915-2003, 595-597  
 Groom, Jeremiah D., and Grubb, Thomas C., Jr., Patch  
 colonization dynamics in Carolina Chickadees  
 (*Poecile carolinensis*) in a fragmented landscape: A  
 manipulative study, 1149-1160  
 Grosbeak, Pine, 383-392; Rose-breasted, 438-454  
 Gross, Kevin, see Kilpatrick, A. Marm, et al.  
 Groth, Jeff G., see Barrowclough, George F., et al.  
 ground, - cover, 82-96; - finches, 625-638  
 ground-nest predation, 82-96  
 Grouse, Black, 1090-1102; Blue, 926-936; Dusky, 926-  
 936; Ruffed, 148-152, 870-876; Sooty, 926-936;  
 Spruce, 500-511  
 growth, 722-734, 1077-1089; chick -, 681-694; population  
 -, 753-763, 764-774; - rates, 681-694, 764-774  
 Grubb, Thomas C., Jr., review by, 601-605  
 Grubb, Thomas C., Jr., see Groom, Jeremiah D., and -  
 Gruiformes, 1183-1184  
*Grus americana*, 1-15  
*Guarouba*, 660-680  
 Guglielmo, Christopher G., see Cerasale, David J., and -  
 Guglielmo, Christopher G., see Seaman, Dana A.  
 Acevedo, et al.  
 guilds, 171-182  
 Guillemot, Pigeon, 722-734  
 Gull, 1-15, 67-81, 905-906; Black-billed, 905-906;  
 Black-headed, 905-906; Bonaparte's, 905-906;  
 Brown-headed, 905-906, 906-907; Brown-  
 hooded, 905-906; California, 67-81, 148-152;  
 Great Black-headed, 905-906; Hartlaub's, 905-  
 906; Lava, 625-638; Mediterranean, 905-906; Red-  
 billed, 524-536, 905-906; Relict, 905-906; Ring-  
 billed, 67-81; Saunder's, 905-906; Silver, 905-906;  
 Slender-billed, 905-906; Swallow-tailed, 625-638  
 Guledge, James L., In Memoriam, 1932-2001, 597-598  
 Gutiérrez, R. J., see Barrowclough, George F., et al.  
 Gutzwiller, Kevin J., In Memoriam: Stanley Helmer  
 Anderson, 1939-2005, 908-909  
*Gygis*, 926-936  
*G. alba*, 926-936  
*Gymnogyps californianus*, 1-15  
*Gymnomystax mexicanus*, 211-234  
*Gymnostinops montezuma*, 211-234  
 habitat, 108-118, 171-182, 211-234, 455-466, 639-649,  
 1022-1037, 1038-1051, 1077-1089, 1090-1102,  
 1149-1160, 1185-1189; - connectivity, 1149-1160;  
 - fragmentation, 1090-1102; - heterogeneity,  
 97-107; - loss, 958-961; - management, 301-312;  
 - modeling, 1038-1051; - preferences, 33-44,  
 153-161; riparian -, 1110-1128; - sampling,  
 892-904; - selection, 301-312; sink -, 1149-1160;  
 - structure, 301-312, 1110-1128; - trade-off  
 hypothesis, 467-474; - use, 368-382, 795-806  
*Haemoproetus prognai*, 141-147  
*Halcyon*, 487-499  
*H. badia*, 487-499  
*H. capensis*, 487-499  
*H. chloris*, 487-499  
*H. fulgidus*, 487-499  
*H. leucopygius*, 487-499  
*H. malimbica*, 487-499  
*H. ruficollaris*, 487-499  
*H. sanctus*, 487-499  
*H. senegalensis*, 487-499  
*H. torotoro*, 487-499  
*H. tutus*, 487-499  
 Hale, Amanda M., see Williams, Dean A., and -  
 Hale, Stephen R., Using satellite imagery to model  
 distribution and abundance of Bicknell's Thrush  
 (*Catharus bicknelli*) in New Hampshire's White  
 Mountains, 1038-1051  
*Haliaeetus leucocephalus*, 198-210, 393-404, 695-707, 877-884  
 Hancock, James A., 1921-2004, In Memoriam, 278-279  
 Hannon, Susan J., see Toms, Judith D., et al.  
 haptoglobin, 1161-1171  
 hardwoods, northern, 82-96  
 Harrison, Bobby R., see Fitzpatrick, John W., et al.  
 hatching, asynchronous -, 708-721; - date, 67-81; -  
 success, 23-32, 1013-1021; synchronous -, 708-721  
 Haussmann, Mark F., see Juola, Frans A., et al.  
 Hawaiian birds, 753-763  
 Hawk, 1069-1076; Broad-winged, 82-96, 847-857,  
 892-904; Cooper's, 82-96, 431-437, 1069-1076;  
 Ferruginous, 877-884; Galápagos, 625-638;  
 Gray, 926-936; Red-tailed, 892-904; Roadside,  
 926-936; Sharp-shinned, 82-96, 431-437, 822-835;  
 Swainson's, 625-638  
 health, 1013-1021  
*Helmitheros vermivorum*, 301-312  
 helpers, 847-857  
*Hemignathus virens*, 764-774  
*Hemimacronyx*, 455-466  
 Hen, Bantam, 405-418  
*Henicorhina*, 119-134  
*H. inornata*, 119-134  
*H. leucophrys*, 119-134  
*H. l. brunneiceps*, 119-134  
*H. l. leucophrys*, 119-134  
*H. leucoptera*, 119-134  
*H. leucosticta*, 119-134  
*H. negreti*, 119-134  
*H. prosthleuca*, 119-134  
 Hermit, Little, 1129-1148; Rufous-breasted, 1129-1148;  
 Saw-billed, 1129-1148; Scale-throated, 1129-1148  
 Hernández, Fidel, see Flanders, Aron A., et al.  
 Heron, Great Blue, 393-404, 695-707  
*Hesperornis*, 1183-1184

- heterogeneity models, 1172–1182  
*Heteroscelus*, 926–936  
 heterozygosity, 949–957  
 hickory, 795–806  
 hierarchical organization, 967–990  
*Himatione sanguinea*, 764–774  
 Hines, James E., see MacKenzie, Darryl I., et al.  
*Hippolais pallida*, 419–430  
*Hirundo rustica*, 153–161, 1013–1021  
 honeycreeper, 764–774  
 Honeyeater, New Holland, 1004–1012  
 honeyguide, 16–22  
 Hornbill, 275–277  
 Hornero, Rufous, 419–430  
 Horvitz-Thompson estimator, 198–210  
 hotspot hypothesis, 247–258  
 Howe, Frank P., see Thogmartin, Wayne E., et al.  
 human activity, 393–404  
 Hummingbird, 1129–1148; Anna's, 1004–1012, 1129–1148; Black-chinned, 1004–1012; Blue-throated, 1004–1012, 1129–1148; Broad-tailed, 1004–1012; Costa's, 1004–1012; Magnificent, 1004–1012; Ruby-throated, 892–904; Sombre, 1129–1148  
 Hunter, Matthew G., see Marshall, David B., et al.  
 Hutto, Richard L., see Fletcher, Robert J., Jr., and –  
 Huyvaert, Kathryn P., et al., Mate opportunity hypothesis and extrapair paternity in Waved Albatrosses (*Phoebastria irrorata*), 524–536  
 hybridization, 958–961, 962–966  
*Hydrobates pelagicus*, 926–936  
*Hydroprogne*, 926–936  
*H. caspia*, 926–936  
*Hyetornis*, 926–936  
*H. pluvialis*, 926–936  
*H. rufigularis*, 926–936  
*Hylocichla*, 1052–1068  
*H. mustelina*, 301–312, 500–511, 1004–1012, 1052–1068, 1110–1128  
*Hylophalix naevioides*, 61–66  
*Hypopyrrhus pyrohypogaster*, 211–234  
 ibises, 1183–1184  
*Icteria virens*, 211–234, 301–312  
 Icteridae, 211–234  
*Icterus bullockii*, 887–891  
*I. galbula*, 211–234, 885–887, 887–891  
*I. graduacauda*, 171–182, 885–887  
*I. spurius*, 885–887  
 images, still –, 587–593; video –, 587–593  
 Immler, Simone, see Birkhead, Timothy R., et al.  
 immunity, host –, 575–586  
 immunocompetence, 575–586, 1161–1171; – handicap hypothesis, 548–562  
 immunoglobulin, 1013–1021  
 immunological techniques, 575–586  
 immunosuppression, 548–562  
 incubation, 16–22, 405–418; – behavior, 708–721; – period, 1013–1021  
*Indicator*, 16–22  
 infection, hemoparasitic –, 548–562; single –, 141–147  
 information-sharing, public –, 247–258  
 information-theoretic approach, 82–96, 368–382  
 integrated immune function, 575–586  
 interactions, aggressive –, 991–1003; agonistic –, 1129–1148; male–male –, 991–1003  
 interclutch variation, 419–430  
 intraclutch variation, 419–430  
 introgression, 958–961  
 invasive exotic plants, 171–182  
 invertebrates, 171–182  
 Isenmann, Paul, and Moali, Aïsa, Oiseaux d'Algeria–Birds of Algeria (rev.), 913–915  
 island, – biogeography, 335–344; – birds, 681–694; – populations, 784–794  
*Ispidina*, 487–499  
*I. lecontei*, 487–499  
*I. madagascariensis*, 487–499  
*I. pictus*, 487–499  
*Ixoreus naevius*, 1052–1068  
 Izhaki, Ido, see Tsahar, Ella, et al.  
 jacanas, 1183–1184  
 Jackdaw, Eurasian, 537–547  
 Jackson, Jerome A., Ivory-billed Woodpecker (*Campephilus principalis*): Hope, and the interfaces of science, conservation, and politics, 1–15  
 Jackson, Jerome A., The public perception of science and reported confirmation of the Ivory-billed Woodpecker in Arkansas, 1185–1189  
 jaegers, 926–936  
 James, Frances C., see Thogmartin, Wayne E., et al.  
 James, Helen F., and Olson, Storrs L., A new species of Hawaiian Finch (Drepanidini: *Loxioides*) from Makauwahi Cave, Kaua'i, 335–344  
 James, Paul C., see Davis, Stephen K., et al.  
 Jarvis, Erich D., see Ferreira, Adriana R. J., et al.  
 Jay, Blue, 1–15, 82–96, 368–382, 438–454, 587–593, 892–904, 1110–1128; Brown, 847–857; European, 512–523  
 Jenkinson AOU Service Award, 2005: Kimberly G. Smith, 287–288  
 Johnson Young Investigator Award, 2005: Kevin J. McGraw, 284–285  
 Johnson, Douglas H., see Thogmartin, Wayne E., et al.  
 Johnson, Ned K., see Cicero, Carla, and –  
 joints, 1183–1184  
 Jokimäki, Jukka, see Rutila, Jarkko, et al.  
 Jones, Ian L., see Major, Heather L., et al.  
 Jones, Jason, see Barg, Jennifer J., et al.  
 Jones, Peter, see Donovan, Therese, et al.  
 Jónsson, Jón Einar, et al., Ecological and physiological factors affecting brood patch area and prolactin levels in Arctic-nesting geese, 405–418  
 Joseph, Leo, see Ribas, Camila C., et al.  
 Junco, Dark-eyed, 512–523, 548–562  
*Junco hyemalis*, 548–562

- J. h. oregonus*, 512–523  
 Junglefowl, Red, 1161–1171  
 Juola, Frans A., et al., Telomere shortening in a long-lived marine bird: Cross-sectional analysis and test of an aging tool, 775–783
- Kaisanlahti-Jokimäki, Marja-Liisa, see Rutila, Jarkko, et al.  
 Kakapo, 949–957  
 Kāma'o, 753–763  
 Kellerman, Jherime L., see Tweed, Erik J., et al.  
 Kelly, Jeffrey F., Stable isotope evidence links breeding geography and migration timing in wood warblers (Parulidae), 431–437  
 Kestrel, Mauritius, 949–957  
 Killdeer, 695–707  
 Kilpatrick, A. Marm, et al., Effects of chronic avian malaria (*Plasmodium relictum*) infection on reproductive success of Hawaii Amakihi (*Hemignathus virens*), 764–774  
 Kim, Dukgun, see Bush, Sarah E., et al.  
 Kingbird, Eastern, 512–523  
 Kingfisher, 487–499; African Dwarf, 487–499; African Pygmy, 487–499; Amazon, 487–499; American Pygmy, 487–499; Azure, 487–499; Banded, 487–499; Belted, 487–499, 892–904; Blue-breasted, 487–499; Chocolate-backed, 487–499; Common, 487–499; Common Paradise, 487–499; Crested, 487–499; Giant, 487–499; Green, 487–499; Green-and-rufous, 487–499; Hook-billed, 487–499; Lesser Yellow-billed, 487–499; Lilac, 487–499; Madagascar Pygmy, 487–499; Malachite, 487–499; Mangaia Island, 487–499; Mangrove, 487–499; Oriental Dwarf, 487–499; Pacific, 487–499; Pied, 487–499; Ringed, 487–499; Rufous-collared, 487–499; Sacred, 487–499; Shining-blue, 487–499; Shovel-billed, 487–499; Spotted Wood, 487–499; Stork-billed, 487–499; Ultramarine, 487–499; Variable Dwarf, 487–499; White-bellied, 487–499; Woodland, 487–499  
 Kinglet, Golden-crowned, 735–752  
 Kissling, Michelle L., and Garton, Edward O., Estimating detection probability and density from point-count surveys: A combination of distance and double-observer sampling, 735–752  
 Kitaysky, Alexander S., see Benowitz-Fredericks, Z. Morgan, et al.  
 Kites, American Swallow-tailed, 847–857  
 Klandorf, Hillar, see Fallon, Jesse A., et al.  
 Klasing, Kirk C., see McGraw, Kevin J., and – Knot, Red, 313–322  
 koa-finch, 335–344  
 Koh, Lian Pin, see Sodhi, Navjot S., et al.  
 Kookaburra, Blue-winged, 487–499; Laughing, 487–499; Rufous-bellied, 487–499;  
 Krabbe, Niels, and Nilsson, Jonas, Birds of Ecuador: Sounds and Photographs / Aves de Ecuador: Sonidos y fotografías (rev.), 293–294  
 Krannitz, Pamela G., see Mahony, Nancy A., et al.  
 Krapu, Gary L., et al., Fat dynamics of Arctic-nesting sandpipers during spring in mid-continental North America, 323–334  
 Kratter, Andrew W., see Banks, Richard C., et al.  
 Krieger, Sharlene M., see Allen, Jennifer C., et al.  
 Kroodsma, Donald, The Singing Life of Birds (rev.), 289–291  
 Kushlan, James A., In Memoriam: James A. Hancock, 1921–2004, 278–279  
 Kuvlesky, William P., Jr., see Flanders, Aron A., et al.
- Lacedo*, 487–499  
*L. pulchella*, 487–499  
*Lagopus lagopus*, 877–884  
 Lammertink, Martjan, see Fitzpatrick, John W., et al.  
*Lampornis clemenciae*, 1004–1012, 1129–1148  
*Lamprosarus tanagrinus*, 211–234  
 land use, 958–961  
 landbird, 625–638, 735–752, 892–904  
 landcover classification, 1038–1051  
 landscape, 183–197, 1090–1102, 1149–1160; agricultural – , 97–107; – change, 313–322; – characteristics, 82–96; – ecology, 301–312; – matrix, 368–382; – scale, 563–574  
*Lanius ludovicianus*, 431–437  
 LaPointe, Dennis A., see Kilpatrick, A. Marm, et al.  
 Laridae, 926–936  
 Lark, Sky, 949–957  
*Larosterna*, 926–936  
*L. inca*, 926–936  
*Larus*, 67–81  
*L. brunnicephalus*, 905–906, 906–907  
*L. californicus*, 67–81, 148–152  
*L. cirrocephalus*, 905–906, 906–907  
*L. c. poiocephalus*, 905–906  
*L. delawarensis*, 67–81  
*L. fuliginosus*, 625–638  
*L. furcatus*, 625–638  
*L. genei*, 905–906, 906–907  
*L. hartlaubii*, 905–906, 906–907  
*L. ichthyaetus*, 905–906, 906–907  
*L. maculipennis*, 905–906, 906–907  
*L. melanocephalus*, 905–906, 906–907  
*L. novaehollandiae*, 905–906  
*L. n. scopulinus*, 524–536, 905–906  
*L. philadelphia*, 905–906, 906–907  
*L. relictus*, 905–906, 906–907  
*L. ridibundus*, 905–906, 906–907  
*L. saundersi*, 905–906, 906–907  
*Laterallus spilonotus*, 625–638  
 learning, song –, 639–649  
 Lease, Julie K., see Kilpatrick, A. Marm, et al.  
 Leichter, Ellen R., and Grier, James W., Importance of facial pattern to sexual selection in Golden-winged Warbler (*Vermivora chrysoptera*), 962–966  
 lek, 967–990; – placement, 247–258  
 Lever, Jackson, see Bush, Sarah E., et al.  
 lice, feather-feeding –, 153–161  
 Lieberman, Alan, see Tweed, Erik J., et al.

- life, - history, 108-118; - span, 775-783  
 life-history traits, 575-586, 775-783  
 limitation, resource -, 393-404  
*Limosa lapponica*, 313-322  
*L. limosa islandica*, 313-322  
 Lincoln-Peterson, 695-707  
 Linnet, 537-547; Common, 383-392  
 lipid, 836-846  
 litter depth, 82-96  
 Lizard-Cuckoo, Great, 926-936; Hispaniolan, 926-936;  
     Jamaican, 926-936; Puerto Rican, 926-936  
 locomotion, 1183-1184  
 logistic regression, 1038-1051  
 Loiselle, Bette A., see Ryder, Thomas B., et al.  
 Lombard effect, 650-659  
*Lonchura cucullata*, 1022-1037  
*L. striata*, 383-392  
 longclaws, 455-466  
 longevity, 108-118, 775-783, 870-876  
 longleaf pine, 1110-1128  
 Longspur, Chestnut-collared, 807-821; Smith's, 383-392  
 long-term ecological research, 183-197  
 loons, 1183-1184  
 Lopez de Casenave, Javier, see Cueto, Victor R., et al.  
*Lophophanes cristatus*, 1013-1021  
 Loriidae, 108-118  
 Lorikeet, Rainbow, 1004-1012  
 Lory, Red, 108-118, 1004-1012  
 Lott, Casey A., and Smith, Jeff P., A geographic-  
     information-system approach to estimating the  
     origin of migratory raptors in North America  
     using stable hydrogen isotope ratios in feathers,  
     822-835  
 Lovejoy, Thomas E., 285-287  
 Lovette, Irby J., see Dingle, Caroline, et al.  
*Loxia baradensis*, 926-936  
*L. noctis*, 926-936  
*L. portoricensis*, 926-936  
*Loxioides*, 335-344  
*L. bailleui*, 335-344  
*L. cf. bailleui*, 335-344  
*L. kikchi*, 335-344  
 Luneau, M. David, Jr., see Fitzpatrick, John W., et al.  
*Luscinia megarhynchos*, 650-659  
  
 Mack, Glenn G., and Clark, Robert G., Home-range  
     characteristics, age, body size, and breeding  
     performance of female Mallards (*Anas*  
     *platyrhynchos*), 467-474  
 MacKenzie, Darryl I., et al., Occupancy Estimation  
     and Modeling (rev.), 1201-1203  
*Macrogalaius imthurni*, 211-234  
*M. subalaris*, 211-234  
*Macronyx capensis*, 455-466  
*M. croceus*, 455-466  
 Maddox, J. Dylan, and Weatherhead, Patrick J.,  
     Nests without eggs: Abandonment or cryptic  
     predation?, 135-140  
  
 Magpie, 383-392; Black-billed, 512-523  
 Magpie-Jay, White-throated, 847-857  
 Mahony, Nancy A., et al., Seasonal fecundity of  
     Sagebrush Brewer's Sparrow (*Spizella breweri*)  
     at the northern edge of its breeding  
     range, 512-523  
 Mainguy, Julien, et al., Gosling growth and survival  
     in relation to brood movements in Greater  
     Snow Geese (*Chen caerulescens atlantica*), 1077-  
     1089  
 Major, Heather L., et al., Assessing the effects of  
     introduced Norway rats (*Rattus norvegicus*)  
     on survival and productivity of Least Auklets  
     (*Aethia pusilla*), 681-694  
 malaria, chronic avian -, 764-774  
 Mallard, 45-60, 301-312, 467-474, 548-562, 695-707,  
     949-957  
*Malurus cyaneus*, 524-536, 548-562  
 Manakin, 247-258; Bronze, 1022-1037; Golden-headed,  
     247-258; White-crowned, 247-258; Wire-tailed,  
     247-258  
 Markham, A. Catherine, see Watts, Bryan D., et al.  
 mark-recapture, 695-707, 858-869  
 Marone, Luis, see Cueto, Victor R., et al.  
 Marshall, David B., et al., Birds of Oregon: A General  
     Reference (rev.), 1203-1205  
 Marshbird, Brown-and-yellow, 23-32  
 marshes, tidal -, 45-60  
 Martens, Jochen, In Memoriam: Siegfried Eck, 1942-  
     2005, 910-911  
 Martin, Galapagos, 625-638; Purple, 141-147  
 Martin, Kathy, see Mahony, Nancy A., et al.  
 Martinez del Rio, Carlos, see Tsahar, Ella, et al.  
 Masked-Weaver, Heuglin's, 1022-1037; Vitelline,  
     1022-1037  
 mass change, 563-574, 836-846  
 mate, - opportunity hypothesis, 524-536; - loss,  
     962-966  
 mating, 967-990; - patterns, 962-966; - success, 301-  
     312; - system, 211-234, 247-258  
 Mattsson, Brady J., and Niemi, Gerald J., Factors  
     influencing predation on Ovenbird (*Seiurus*  
     *auropipilla*) nests in northern hardwoods:  
     Interactions across spatial scales, 82-96  
 maxilla, 335-344  
 Mayfield's method, 23-32  
 McGraw, Kevin J., 284-285  
 McGraw, Kevin J., and Klasing, Kirk C., Carotenoids,  
     immunity, and integumentary coloration in Red  
     Junglefowl (*Gallus gallus*), 1161-1171  
 McIntyre, Carol L., and Collopy, Michael W.,  
     Postfledging dependence period of migratory  
     Golden Eagles (*Aquila chrysaetos*) in Denali  
     National Park and Preserve, Alaska, 877-884  
 Meadowlark, Eastern, 183-197; Western, 807-821, 991-1003  
*Megasceryle*, 487-499  
*M. alcyon*, 487-499  
*M. lugubris*, 487-499



- M. maxima*, 487–499  
*M. torquata*, 487–499  
*Megadytes antipodes*, 858–869  
*Megascops kennicottii*, 892–904  
*Melanerpes*, 235–246  
*M. carolinus*, 1–15, 1110–1128  
*M. erythrocephalus*, 1110–1128  
 melanin, 153–161; – ornament, 962–966  
*Melanitta fusca deglandi*, 67–81  
*Meleagris gallopavo*, 405–418, 1004–1012  
*Melidora*, 487–499  
*M. macrorrhina*, 487–499  
 Mello, Claudio V., see Ferreira, Adriana R. J., et al.  
*Melospittacus undulatus*, 108–118, 1004–1012  
*Melospiza melodia* var. *morphna*, 650–659  
*M. melodia*, 16–22, 23–32, 512–523, 548–562, 639–649, 650–659, 784–794, 892–904, 991–1003  
 mercury, 45–60  
 Merganser, Common, 695–707  
*Mergus merganser*, 695–707  
 Merino, Santiago, see Tomás, Gustavo, et al.  
 Mertz, Lisa A., see Barrowclough, George F., et al.  
 metabolic rate, 870–876  
 metapopulation, 784–794  
 methodology, 500–511, 967–990  
*Micrastur semitorquatus*, 847–857  
*Microcerculus bambla*, 119–134  
 migrants, 431–437; Neotropical –, 795–806; – origins, 822–835  
 migration, 313–322, 323–334, 431–437, 455–466, 563–574, 836–846, 1069–1076; autumn –, 431–437; avian –, 822–835; fall –, 822–835; long-distance –, 313–322, 877–884; Nearctic–Neotropic –, 1052–1068; partial –, 537–547; seasonal –, 1052–1065; – stopovers, 313–322; – timing, 431–437, 537–547  
 migratory intensity, 537–547  
*Milvina calandra*, 419–430  
 Miller, David A., see Grand, James B., et al.  
 Miller, R. Eric, see Parker, Patricia G., et al.  
 Mills, James A., see Baker, Allan J., et al.  
 Millspaugh, Joshua J., see Skalski, John R., et al.  
 mimicry, 419–430  
*Minus polyglottos*, 171–182  
*M. saturninus*, 23–32  
 Miyaki, Cristina Y., see Ribas, Camila C., et al.  
*Mniotilta varia*, 1110–1128  
 Moali, Aïsa, see Isenmann, Paul, and –  
 Mockingbird, 625–638; Chalk-browed, 23–32; Galápagos, 625–638; Hood, 524–536, 625–638; Northern, 171–182  
 modularity, 967–990  
*Mohoua ochrocephala*, 949–957  
 Moksnes, Arne, see Antonov, Anton, et al.  
 molecular, – data, 906–907; – evidence, 905–906; – markers, 887–891; – phylogeny, 211–234, 487–499; – systematics, 660–680; – variation, 885–887  
 Molles, Laura E., Singing complexity of the Banded Wren (*Thryothorus pleurostictus*): Do switching rate and song-type diversity send different messages?, 991–1003  
*Molothrus*, 23–32  
*M. aeneus*, 16–22, 23–32, 211–234  
*M. ater*, 16–22, 23–32, 82–96, 183–197, 211–234, 419–430, 512–523, 548–562, 784–794, 892–904, 1110–1128  
*M. bonariensis*, 16–22, 23–32, 211–234, 419–430  
*M. oryzivora*, 211–234  
*M. rufoaxillaris*, 16–22, 23–32, 211–234  
 molt, 431–437  
 Momotidae, 487–499  
*Momotus momota*, 487–499  
*M. momotus*, 487–499  
 Monahan, William B., see Tweed, Erik J., et al.  
 monitoring, 695–707, 735–752; – population trends, 345–357  
 monogamy, social –, 524–536  
 Moore, Frank R., see Cimprich, David A., and –  
 Morales, Judith, see Tomás, Gustavo, et al.  
 Mordecai, Rua S., see Peterson, James T., and –  
 Moreno, Juan, see Tomás, Gustavo, et al.  
 morphological, – characters, 266–274; – diversity, 660–680; – similarity, 906–907  
 morphology, 1052–1068  
 mortality, 67–81, 97–107, 108–118, 575–586, 892–904, 1077–1089  
 Morton, Eugene S., see Davidar, Priya, and –  
 mosquitoes, 764–774  
*Motacilla aguimp*, 455–466  
*M. alba lugens*, 455–466  
*M. capensis*, 455–466  
*M. cinerea*, 455–466  
*M. citreola*, 455–466  
*M. clara*, 455–466  
*M. flava*, 455–466  
*M. madaraspatensis*, 455–466  
 Motacillidae, 455–466  
 Motis, Anna, see Delacour, J., et al.  
 Motmot, Blue-crowned, 487–499  
 movement, 1149–1160; – patterns, 500–511  
 Moyer, Brett R., see Bush, Sarah E., et al.  
 Moyle, Robert G., A molecular phylogeny of kingfishers (Alcedinidae) with insights into early biogeographic history, 487–499  
 multiple, – observers, 1172–1182; – working hypotheses, 1022–1037  
 multi-scale, 82–96  
 Munshi-South, Jason, and Wilkinson, Gerald S., Diet influences life span in parrots (Psittaciformes), 108–118  
 Murray, Bertram G., Jr., A new equation for calculating reproductive success of clutches as a function of the day on which incubation starts: Some implications, 708–721  
 Murre, Common, 722–734; Thick-billed, 681–694  
 Murrelet, Ancient, 681–694, 722–734; Xantus', 681–694  
*Muscicapa albicilla*, 926–936  
*Myadestes*, 1052–1068

- M. melanops*, 1052–1068  
*M. myadestinus*, 753–763  
*M. obscurus*, 753–763  
*M. palmeri*, 753–763  
*M. unicolor*, 1052–1068  
*Myiarchus crinitus*, 1110–1128  
*Myioceyx lecontei*, 487–499  
*Myiozetetes similis*, 926–936  
Myna, Common, 764–774, 949–957  
*Myrmeciza longipes*, 61–66
- Navarro-Sigüenza, Adolfo G., see Peterson, A.  
 Townsend, and –  
*Nectarinia chalybea*, 1004–1012  
*N. osea*, 1004–1012  
 nectarivores, 1004–1012  
*Neospar nigerrimus*, 211–234  
 Neotropics, 660–680  
*Nesomimus*, 625–638  
*N. macdonaldi*, 524–536  
*N. parvulus*, 625–638  
 nest, – abandonment, 135–140; – architecture, 475–486;  
 – attentiveness, 16–22; – boxes, 97–107, 259–265,  
 1013–1021; – building, 1013–1021; – choice, 475–  
 486; – construction, 135–140; courtship –, 135–  
 140; – depredation, 784–794; – habitat, 405–418;  
 – location, 475–486; – predation, 45–60, 82–96,  
 135–140, 368–382, 512–523, 1022–1037; – sites,  
 1022–1037; – size, 405–418, 1013–1021; – success,  
 198–210, 467–474, 753–763, 1022–1037; – survival,  
 23–32, 198–210, 368–382, 807–821  
 nesting, – association, 1022–1037; – density, 393–404;  
 – failure, 847–857; – success, 475–486, 753–763;  
 time of –, 475–486  
 nestling, – growth, 97–107; – provisioning, 847–857;  
 – weight, 847–857  
 New Zealand, 949–957  
 niche-partitioning, 235–246  
 Nichols, James D., see MacKenzie, Darryl I., et al.  
 Niemi, Gerald J., see Mattsson, Brady J., and –  
 Nighthawk, Common, 892–904  
 Nightingale, Common, 650–659  
 Nilsson, Anna L. K., et al., Do partial and regular  
 migrants differ in their responses to weather?,  
 537–547  
 Nilsson, Jan-Åke, see Nilsson, Anna L. K., et al.  
 Nilsson, Jonas, see Krabbe, Niels, and –  
 nitrogen, 1004–1012; minimum – requirements, 1004–  
 1012; total endogenous – loss, 1004–1012  
 Noddy, Black, 926–936; Blue-gray, 926–936; Brown,  
 926–936  
 noise, – spectrum, 650–659; urban –, 639–649, 650–659  
 nonbreeding, 235–246  
 nonoscines, 639–649  
 nonparametric models, 198–210  
 nonpasserine, 383–392, 524–536, 639–649, 695–707  
 North American Landbird Conservation Plan, 892–904  
 North Dakota, 323–334  
 Norway rats, 681–694  
 Nuthatch, Brown-headed, 1110–1128; Red-breasted,  
 438–454; White-breasted, 1–15, 587–593
- O'Connor, Raymond Joseph, 1944–2005, In  
 Memoriam, 1193–1195  
 observer, double –, 695–707; multiple –, 1172–1182  
 Occam's razor, 708–721  
*Oceanodroma homochroa*, 681–694  
*O. leucorhoa*, 524–536, 775–783  
 Olson, Storrs L., see James, Helen F., and –  
 'Ōma'o, 753–763  
 omnivores, 1004–1012  
 ontogeny, 650–659  
 ontology, 967–990  
*Onychognathus tristrami*, 1004–1012  
*Onychoprion*, 926–936  
*O. aleuticus*, 926–936  
*O. anaethetus*, 926–936  
*O. fuscatus*, 926–936  
*O. lunatus*, 926–936  
*Oporornis agilis*, 438–454, 892–904  
*O. formosus*, 82–96, 301–312  
*O. philadelphia*, 438–454  
*Oreopar bolivianus*, 211–234  
 organochlorines, 45–60  
 Oriole, 211–234; Audubon's, 171–182; Baltimore, 887–  
 891; Bullock's, 887–891  
 Oropendola, Chestnut-headed, 1022–1037  
*Orthospiza*, 335–344  
*O. howarthi*, 335–344  
 oscine, 639–649, 887–891  
 Osprey, 393–404  
 osteology, comparative –, 335–344  
 O'u, 335–344  
 Outlaw, Diana C., and Voelker, Gary, Phylogenetic tests  
 of hypotheses for the evolution of avian migration:  
 A case study using the Motacillidae, 455–466  
 Ovenbird, 82–96, 301–312, 438–454, 500–511, 1110–  
 1128, 1172–1182  
 Overview, 16–22, 313–322, 639–649, 958–961  
 Owl, Barn, 753–763; California Spotted, 1090–1102;  
 Great Gray, 892–904; Great Horned, 877–884,  
 892–904; Little, 949–957; Long-eared, 892–904;  
 Mexican Spotted, 1090–1102; Northern Spotted,  
 1090–1102; Short-eared, 625–638, 753–763;  
 Spotted, 1090–1102; Tawny, 877–884
- Palila, Pila's, 335–344  
*Pandion haliaetus*, 393–404  
 Paradisaidae, 967–990  
 Parakeet, Carolina, 148–152; Maroon-faced, 660–680;  
 Painted, 660–680  
 parasites, 625–638, 1183–1184; blood –, 141–147,  
 625–638, 1013–1021; brood –, 16–22; hematozoan  
 –, 548–562; – loads, 153–161  
 parasitism, brood –, 23–32, 259–265, 419–430, 784–794;  
 experimental –, 419–430

- Parker, Patricia G., et al., Conservation medicine on the Galápagos Islands: Partnerships among behavioral, population, and veterinary scientists, 625–638
- Parker, Patricia G., see Huyvaert, Kathryn P., et al.
- Parotia*, 967–990
- P. carolae*, 967–990
- Parotia*, Carola's, 967–990
- Parris, Jennifer, see Deviche, Pierre, and –
- Parrot, 1–15, 108–118, 660–680, 949–957, 1129–1148; Pesquet's, 108–118, 1004–1012
- Parrotlet, Green-rumped, 708–721
- Partners in Flight, 892–904
- Parulidae, 211–234, 431–437, 991–1003, 1052–1068
- Parus caeruleus*, 163–171
- P. cristatus*, 1149–1160
- P. major*, 153–161, 345–357, 383–392, 548–562, 639–649, 650–659, 991–1003, 1013–1021
- P. montanus*, 383–392
- Passer domesticus*, 335–344, 383–392, 512–523, 548–562, 708–721, 949–957, 1004–1012
- P. melanurus*, 383–392
- P. montanus*, 949–957
- Passerculus sandwichensis*, 807–821, 887–891
- Passerina cyanea*, 301–312, 1110–1128
- passerine, 61–66, 97–107, 108–118, 259–265, 313–322, 335–344, 383–392, 548–562, 563–574, 575–586, 625–638, 639–649, 708–721, 753–763, 795–806, 807–821, 836–846, 887–891, 949–957, 1069–1076
- pastures, 807–821
- patch-size effects, 807–821
- paternity, 524–536
- pathogens, 625–638
- Patricelli, Gail L., and Blickley, Jessica L., Avian communication in urban noise: Causes and consequences of vocal adjustment, 639–649
- PCBs, 45–60
- Pechacek, Peter, Foraging behavior of Eurasian Three-toed Woodpeckers (*Picoides tridactylus alpinus*) in relation to sex and season in Germany, 235–246
- Peer, Brian D., Egg destruction and egg removal by avian brood parasites: Adaptiveness and consequences, 16–22
- Pelargopsis*, 487–499
- P. capensis*, 487–499
- Pelecanus erythrorhynchos*, 695–707
- P. occidentalis*, 625–638
- Pelican, American White, 695–707; Brown, 625–638
- Pellatt, E. Jayne, see Birkhead, Timothy R., et al.
- Penguin, 858–869; Adélie, 775–783, 858–869, 1038–1051; Emperor, 858–869; Galápagos, 625–638; King, 524–536, 858–869; Little, 858–869; Royal, 858–869; Yellow-eyed, 858–869
- pentosidine, 148–152, 870–876
- Pepperberg, Irene M., In Memoriam: Donald R. Griffin, 1915–2003, 595–597
- Perspectives in Ornithology, 1–15, 301–312, 625–638, 949–957
- Peterjohn, Bruce, review by, 915–916
- Peters, D. Stefan, In Memoriam: Joachim Steinbacher, 1911–2005, 1192
- Peterson, A. Townsend, and Navarro-Sigüenza, Adolfo G., Consistency of taxonomic treatments: A response to Remsen (2005), 885–887
- Peterson, James T., and Mordecai, Rua S., review by, 1201–1203
- Petrel, 524–536; Dark-rumped, 681–694
- Petroica australis*, 949–957
- P. traversi*, 949–957
- Phaethornis eurynome*, 1129–1148
- P. longuemareus*, 1129–1148
- Phaethornithinae*, 1129–1148
- Phaetusa*, 926–936
- P. simplex*, 926–936
- Phalacrocorax aristotelis*, 775–783
- P. auritus*, 695–707, 870–876
- P. harrisi*, 625–638
- Phalarope, Red-necked, 524–536; Wilson's, 524–536
- Phalaropus lobatus*, 524–536
- P. tricolor*, 524–536
- Phasianus colchicus*, 45–60, 183–197
- Pheasant, Ring-necked, 45–60, 183–197
- phenology, 795–806
- phenotype, 967–990
- phenotypic, – flexibility, 313–322; – invasion, 958–961; – plasticity, 259–265
- Pheucticus ludovicianus*, 438–454
- Phoebastria immutabilis*, 681–694
- P. irrorata*, 524–536, 625–638
- Phoenicopteridae, 1183–1184
- Phoeniculus purpureus*, 1022–1037
- Phoenicurus*, 259–265
- P. phoenicurus*, 259–265, 419–430
- Phylidonyris novaehollandiae*, 1004–1012
- Phylloscopus*, 211–234, 1052–1068
- P. collybita*, 383–392
- P. trochilus*, 345–357, 383–392
- phylogenetic, – correlation, 383–392; – species concept, 887–891
- phylogeny, 119–134, 335–344, 383–392, 455–466, 487–499, 1004–1012, 1052–1068, 1183–1184; molecular –, 211–234, 487–499
- phylogeography, 119–134, 1090–1102
- physiological factors, 405–418
- physiology, 563–574, 1004–1012
- Piaya*, 926–936
- P. cayana*, 926–936
- P. minuta*, 926–936
- Pica hudsonia*, 512–523
- P. pica*, 383–392
- Picoides albolarvatus*, 235–246
- P. arcticus*, 235–246
- P. borealis*, 1–15, 587–593, 1110–1128
- P. dorsalis*, 235–246
- P. major numidus*, 235–246
- P. pubescens*, 235–246, 587–593

- P. tridactylus*, 235–246  
*P. t. alpinus*, 235–246  
*P. villosus*, 235–246, 587–593  
 Pigeon, 1183–1184; Passenger, 148–152; Rock, 153–161, 625–638  
*Pinicola enucleator*, 383–392  
*Pinus palustris*, 1110–1128  
*Pionus*, 660–680  
*Pipilo erythrophthalmus*, 500–511, 885–887, 1110–1128  
*P. fuscus*, 885–887  
*P. macronyx*, 885–887  
 Pipit, 455–466; Sprague's, 807–821  
*Pipra*, 247–258  
*P. erythrocephala*, 247–258  
*P. filicauda*, 247–258  
*P. pipra*, 247–258  
 Pipridae, 247–258  
*Piranga ludoviciana*, 438–454  
*P. olivacea*, 1172–1182  
*P. rubra*, 1110–1128  
 plant–animal interactions, 358–367  
 plasma metabolites, 563–574, 836–846  
*Plasmodium relictum*, 764–774  
*Platycichla*, 1052–1068  
*P. flavipes*, 1052–1068  
*P. leucops*, 1052–1068  
 playbacks, 991–1003  
*Plectrophenax*, 926–936  
*P. nivalis*, 708–721  
*Ploceus*, 1022–1037  
*P. cucullatus*, 467–474  
*P. heuglini*, 1022–1037  
*P. luteolus*, 1022–1037  
*P. philippinus*, 467–474  
*P. vitellinus*, 1022–1037  
 Plover, Spur-winged, 708–721  
 plumage, 722–734; – color, 153–161; – modification, 962–966; ornamental –, 967–990; ultraviolet –, 211–234  
*Pluvialis dominica*, 313–322  
*Podiceps*, 1183–1184  
 Podicipedidae, 1183–1184  
*Poecile atricapillus*, 438–454, 892–904, 1090–1102, 1149–1160  
*P. carolinensis*, 1110–1128, 1149–1160  
*P. montanus*, 1069–1076  
 point counts, 33–44, 171–182, 345–357, 438–454, 735–752, 1110–1128, 1172–1182  
 Poland, 1103–1109  
*Poliophtila caerulea*, 1110–1128  
 politics, 1185–1189  
 Pollock, Kenneth H., see Alldredge, Mathew W., et al.  
 Pollock, Kenneth H., see MacKenzie, Darryl I., et al.  
 polygyny, male-dominance –, 247–258  
*Poocetes gramineus*, 807–821  
*Poospiza ornata*, 358–367  
 population, 949–957; – biology, 625–638; – bottleneck, 949–957; breeding –, 393–404; – connectivity, 822–835; – decline, 681–694; – density, 1103–1109; – estimation, 892–904, 1038–1051, 1172–1182; – genetics, 1090–1102; grassland bird –, 171–182; – growth rate, 764–774; island –, 784–794; linked –, 784–794; – size, 892–904; – synchrony, 784–794; – trends, 695–707  
 Post, Peter, and Götmark, Frank, Foraging behavior and predation risk in male and female Eurasian Blackbirds (*Turdus merula*) during the breeding season, 162–170  
 postfledging dependence period, 877–884  
 Potapov, Eugene, and Sale, Richard, The Gyrfalcon (rev.), 920–923  
 Powell, Alexis F. L. A., Effects of prescribed burns and bison (*Bos bison*) grazing on breeding bird abundances in tallgrass prairie, 183–197  
 poxviruses, 625–638  
 prairie, mixed grass –, 807–821; native –, 807–821; – Pothole Region, 323–334; tallgrass –, 183–197  
 Prairie-Chicken, Greater, 183–197, 949–957  
 precipitation, 822–835  
 predation, 475–486, 753–763, 784–794, 1069–1076; cryptic –, 135–140; – risk, 162–170  
 predator, 162–170; – avoidance, 1069–1076; – control, 753–763; simulated –, 1069–1076  
 preening, 153–161  
 prey abundance, 563–574  
*Procellaria grallaria*, 926–936  
 Procellariiformes, 108–118, 524–536  
*Procelsterna*, 926–936  
*P. cerulea*, 926–936  
 productivity, 198–210, 368–382, 393–404, 512–523, 681–694  
 Profus, Piotr, see Chernetsov, Nikita, et al.  
*Progne modesta*, 625–638  
*P. subis*, 141–147  
 program MARK, 67–81, 1172–1182  
 prolactin, 405–418  
 protandry, 524–536  
 protein, 1004–1012  
 Pruett, Christin L., see Winker, Kevin, and –  
*Prunella modularis*, 383–392, 991–1003  
*Psarocolius angustifrons*, 211–234  
*P. wagleri*, 1022–1037  
*Pseudoleistes guirahuro*, 211–234  
*P. virescens*, 23–32, 211–234  
 Psittacidae, 108–118, 660–680  
 Psittaciformes, 108–118  
*Psittirostra psittacea*, 335–344  
*Psittichas fulgidus*, 108–118, 1004–1012  
 Ptarmigan, Willow, 877–884  
*Pterodroma phaeopygia*, 681–694  
*Ptychoramphus aleuticus*, 681–694  
 Puaiohi, 753–763  
 public perception, 1185–1189  
 Pueo, 753–763  
 Puffin, Atlantic, 681–694, 722–734; Horned, 722–734; Tufted, 681–694, 722–734  
*Puffinus Edwardsii*, 926–936  
*P. tenuirostris*, 524–536  
*Pycnonotus xanthopygos*, 1004–1012

- Pygoscelis adeliae*, 775–783, 858–869, 1038–1051  
*Pyrrhula*, 335–344, 383–392  
*P. erythaca*, 335–344, 383–392  
*P. pyrrhula*, 335–344, 358–367, 383–392  
*Pyrrhura*, 660–680  
*P. albipectus*, 660–680  
*P. amazonum*, 660–680  
*P. calliptera*, 660–680  
*P. cruenata*, 660–680  
*P. devillei*, 660–680  
*P. egregia*, 660–680  
*P. frontalis*, 660–680  
*P. griseipectus*, 660–680  
*P. hoematotis*, 660–680  
*P. hoffmani*, 660–680  
*P. lepada*, 660–680  
*P. leucotis*, 660–680  
*P. l. auricularis*, 660–680  
*P. l. emma*, 660–680  
*P. l. griseipectus*, 660–680  
*P. l. leucotis*, 660–680  
*P. l. pfrimeri*, 660–680  
*P. melanura*, 660–680  
*P. m. berlepschii*, 660–680  
*P. m. melanura*, 660–680  
*P. m. souancei*, 660–680  
*P. molinae*, 660–680  
*P. orcesi*, 660–680  
*P. perlata*, 660–680  
*P. peruviana*, 660–680  
*P. picta*, 660–680  
*P. p. amazonum*, 660–680  
*P. p. caeruleiceps*, 660–680  
*P. p. eisenmanni*, 660–680  
*P. p. lucianii*, 660–680  
*P. p. pantchenkoi*, 660–680  
*P. p. picta*, 660–680  
*P. p. roseifrons*, 660–680  
*P. p. subandina*, 660–680  
*P. rhodoccephala*, 660–680  
*P. roseifrons*, 660–680  
*P. rupicola*, 660–680  
*P. snethlageae*, 660–680  
*P. viridicata*, 660–680  
*Pytilia*, Green-winged, 1022–1037  
*Pytilia melba*, 1022–1037
- Quader, Suhel, What makes a good nest? Benefits of nest choice to female Baya Weavers (*Ploceus philippinus*), 475–486  
*Quiscalus lugubris*, 211–234  
*Q. major*, 211–234, 708–721  
*Q. mexicanus*, 211–234  
*Q. niger*, 211–234  
*Q. quiscula*, 135–140, 211–234, 892–904
- radiocarbon chronology, 335–344  
radio-frequency identification, 858–869  
radiotelemetry, 753–763  
radiotracking, 1077–1089  
Radke, William J., see Fallon, Jesse A., et al.  
Rail, California Clapper, 45–60; Guam, 949–957; Light-footed Clapper, 45–60; Galápagos, 625–638; Northern Clapper, 45–60  
*Rallus longirostris crepitans*, 45–60  
*R. l. levipes*, 45–60  
*R. l. obsoletus*, 45–60  
*R. ovestoni*, 949–957  
*Ramphodon naevius*, 1129–1148  
range, edge of –, 512–523; flight –, 323–334; home –, 467–474  
rangelands, 171–182  
raptor, 335–344, 695–707, 822–835, 870–876, 1069–1076  
Rasmussen, Pamela C., and Anderton, John C., Birds of South Asia: The Ripley Guide (rev.), 916–918  
Rasmussen, Pamela C., see Banks, Richard C., et al.  
rats, 753–763  
*Rattus* spp., 753–763  
*R. norvegicus*, 681–694  
Raven, Common, 512–523, 587–593, 892–904  
Razorbill, 722–734  
Reboreda, Juan C., see Astié, Andrea A., and – recovery, 1–15; – efforts, 1189  
recruitment, 877–884  
Redpoll, Common, 548–562  
Redshank, Common, 926–936, 1069–1076; Spotted, 926–936  
Redstart, American, 313–322, 431–437, 524–536, 892–904; Common, 259–265, 419–430  
Reed, Eric T., see Thogmartin, Wayne E., et al.  
refueling, 313–322, 836–846  
*Regulus satrapa*, 735–752  
reintroduction, 753–763  
Reiter, Matthew E., see Kilpatrick, A. Marm, et al.  
*Remiz pendulinus*, 467–474  
remote sensing, 1038–1051  
Remsen, J. V., Jr., see Banks, Richard C., et al.  
Remsen, J. V., Jr., see Fitzpatrick, John W., et al.  
renewing, 512–523  
repertoire, 650–659, 991–1003  
reproductive, – consequences, 467–474; lifetime – success, 575–586; – success, 16–22, 23–32, 45–60, 153–161, 467–474, 524–536, 708–721, 764–774, 847–857, 1022–1037; – system, 548–562; – variation, 784–794  
requirements, minimum area –, 301–312; nutrient –, 323–334  
residency, 537–547  
resources, 1077–1089; food –, 358–367  
restoration, 1110–1128  
return rate, 141–147  
Reviewers for *The Auk*, 2006, 1210–1211  
*Rhinopomastus aterimus*, 1022–1037  
*Rhodacanthus*, 335–344  
*R. flaviceps*, 335–344  
*R. forfex*, 335–344

- R. palmeri*, 335–344
- Ribas, Camila C., et al., Molecular systematics and patterns of diversification in *Pyrrhura* (Psittacidae), with special reference to the *picta-leucotis* complex, 660–680
- riparian habitat, 1110–1128
- Rising, James D., see Banks, Richard C., et al.
- risk aversion, 1069–1076
- rivers, 695–707
- Roadrunner, Greater, 171–182
- Robertson, Raleigh J., see Barg, Jennifer J., et al.
- Robin, American, 135–140, 1004–1012; Black, 949–957; European, 345–357, 537–547, 1069–1076; New Zealand, 949–957
- Rodewald, Amanda D., see Bakermans, Marja H., and – Rohrbach, Ronald W., see Fitzpatrick, John W., et al.
- Roller, European, 487–499; Lilac-breasted, 487–499
- Rook, 383–392
- roosting, communal –, 108–118
- Ropalidia cincta*, 1022–1037
- Rosenberg, Kenneth V., see Fitzpatrick, John W., et al.
- Røskoft, Eivind, see Antonov, Anton, et al.
- Rosser, Benjamin W. C., and Viswanathan, Mohan, In Memoriam: John Caleekal George, 1921–2005, 279–280
- Royle, J. Andrew, see MacKenzie, Darryl I., et al.
- Rupornis*, 926–936
- Ruthven, Donald C., III, see Flanders, Aron A., et al.
- Rutila, Jarkko, et al., Responses of parasitized and unparasitized Common Redstart (*Phoenicurus phoenicurus*) populations against artificial cuckoo parasitism., 259–265
- Ryder, Thomas B., et al., A test of the environmental hotspot hypothesis for lek placement in three species of manakins (Pipridae) in Ecuador, 247–258
- Ryding, Kristen E., see Skalski, John R., et al.
- Rynchops niger*, 926–936
- sagebrush, 512–523
- Sale, Richard, see Potapov, Eugene, and –
- salinity, 393–404
- Salpinx obsoletus*, 991–1003
- Saltatricula multicolor*, 358–367
- Salvante, Katrina G., Techniques for studying integrated immune function in birds, 575–586
- Sameshima, Koichi, see Ferreira, Adriana R. J., et al.
- sampling, – error, 438–454; – distance, 345–357, 735–752; double –, 438–454; double-observer –, 735–752; habitat –, 892–904; line-transect –, 345–357; point-transect –, 345–357
- San Francisco Bay, 45–60
- Sanderling, 313–322
- sandgrouse, 1183–1184
- Sandpiper, 313–322, 323–334, 563–574; Baird's, 313–322, 323–334; Common, 926–936; Green, 926–936; Least, 313–322; Marsh, 926–936; Pectoral, 313–322; Semipalmated, 313–322, 323–334; Solitary, 926–936; Spotted, 524–536, 695–707, 926–936; Stilt, 313–322; Terek, 926–936; Upland, 183–197; Western, 563–574, 836–846; White-rumped, 313–322, 323–334; Wood, 926–936
- Sanz, Juan J., see Tomás, Gustavo, et al.
- sapsuckers, 235–246
- sap-sucking, 235–246
- satellite, – imagery, 1038–1051; – telemetry, 877–884
- Sauer, John R., see Thogmartin, Wayne E., et al.
- Saurothera*, 926–936
- S. longirostris*, 926–936
- S. merlini*, 926–936
- S. vetula*, 926–936
- S. vieillotii*, 926–936
- Schlossberg, Scott, Abundance and habitat preferences of Gray Vireos (*Vireo vicinior*) on the Colorado Plateau, 33–44
- Schmiegelow, Fiona K. A., see Toms, Judith D., et al.
- Scholes, Edwin, III, Courtship ethology of Carolina Parrotia (*Parotia carolae*), 967–990
- Schwarzbach, Steven E., et al., Effects of predation, flooding, and contamination on reproductive success of California Clapper Rails (*Rallus longirostris obsoletus*) in San Francisco Bay, 45–60
- scientific, – ethics, 1189; – process, 1185–1189
- Scimitar-bills, Black, 1022–1037
- Sclerurus*, 926–936
- Scolopacidae, 313–322, 926–936
- Scoter, White-winged, 67–81
- Screech-Owl, Western, 892–904
- Scrub-Jay, Florida, 847–857
- seabird, 108–118, 301–312, 335–344, 524–536, 625–638, 681–694, 722–734
- Seaman, Dana A. Acevedo, et al., Landscape-scale physiology: Site differences in refueling rates indicated by plasma metabolite analysis in free-living migratory sandpipers, 563–574
- seasonality, 455–466
- secondary, – contact, 958–961; – sexual characters, 548–562
- seed, – consumption, 358–367; – loss, 358–367; – preference, 358–367; – weight, 358–367
- Seiurus aurocapilla*, 82–96, 301–312, 438–454, 500–511, 1110–1128, 1172–1182
- Selasphorus platycercus*, 1004–1012
- selection, microhabitat –, 795–806; nest-site –, 1077–1089; sexual –, 211–234, 383–392, 475–486, 958–961, 962–966, 1013–1021, 1161–1171
- senescence, 775–783
- Sephanoides sephanioides*, 1004–1012
- Setophaga ruticilla*, 313–322, 431–437, 524–536, 892–904
- sex, 162–170; – bias, 1103–1109
- Shaffer, Terry L., see Davis, Stephen K., et al.
- Shag, European, 775–783
- Shearwater, 524–536; Cape Verde, 926–936; Short-tailed, 524–536
- shorebird, 313–322, 335–344, 524–536, 563–574, 695–707, 926–936, 1183–1184
- Shrike, Loggerhead, 431–437



- Sialia sialis*, 500–511, 1052–1068, 1110–1128  
 Silastic capsules, 548–562  
 silviculture, 82–96  
 Simon, Scott D., see Fitzpatrick, John W., et al.  
 Simons, Theodore R., see Alldredge, Mathew W., et al.  
 singing complexity, 991–1003  
 site fidelity, 247–258, 301–312  
*Sitta canadensis*, 438–454  
*S. carolinensis*, 1–15, 587–593  
*S. pusilla*, 1110–1128  
*S. p. insularis*, 926–936  
 Skagen, Susan K., Migration stopovers and the conservation of Arctic-breeding calidridine sandpipers, 313–322  
 Skalski, John R., et al., Wildlife Demography: Analysis of Sex, Age, and Count Data (rev.), 1205–1207  
 skeletal characters, 1183–1184  
 skin, 870–876; museum –, 949–957; museum study –, 148–152, 211–234  
 skuas, 926–936  
 Slud, Paul, 1919–2006, In Memoriam, 1196–1197  
 Smith, Henrik G., see Granbom, Martin, and –  
 Smith, Jeff P., see Lott, Casey A., and –  
 Smith, Kimberly G., 287–288  
 Smith, Kimberly G., 100 years ago in the American Ornithologists' Union, 295–296, 611–613, 924–925, 1208–1209  
 Smith, Thomas B., see Dingle, Caroline, et al.  
 Smulders, Tom V., see Ferreira, Adriana R. J., et al.  
 snapshot method, 345–357  
 Snyder, Noel F. R., The Carolina Parakeet: Glimpses of a Vanished Species (rev.), 291–292  
 social, – groups, 847–857; – instability, 61–66; – structure, 67–81  
 Sodhi, Navjot S., et al., Southeast Asian birds in peril, 275–277  
 Soha, Jill A., review by, 289–291  
*Somateria mollissima*, 67–81, 405–418, 575–586  
*S. spectabilis*, 67–81  
 song, 650–659; – learning, 639–649; – post, 795–806; – repertoire, 650–659; – structure, 1129–1148; – transmission, 650–659, 795–806  
 songbird, 33–44, 82–96, 301–312, 345–357, 438–454, 512–523, 639–649, 991–1003, 1129–1148  
 songbursts, 345–357  
 song-type, – diversity, 991–1003; – matching, 991–1003  
 Southeast Asia, 275–277  
 Southern Hemisphere, 905–906, 906–907  
 space-use patterns, 795–806  
 Sparling, Gene M., see Fitzpatrick, John W., et al.  
 Sparrow, 358–367; Bachman's, 1110–1128; Baird's, 301–312, 807–821; Black-throated, 171–182, 784–794; Cape, 383–392; Cassin's, 171–182; Chipping, 1110–1128; Clay-colored, 807–821; Eurasian Tree, 949–957; Grasshopper, 183–197, 892–904; Henslow's, 183–197; House, 383–392, 512–523, 548–562, 708–721, 949–957, 1004–1012; Lark, 171–182; Olive, 171–182; Rufous-collared, 23–32, 358–367; Rufous-crowned, 512–523; Sage, 266–274; Sagebrush Brewer's, 512–523; Savannah, 807–821, 887–891; Song, 16–22, 23–32, 512–523, 548–562, 639–649, 650–659, 784–794, 892–904, 991–1003; Vesper, 807–821; White-crowned, 431–437, 512–523, 836–846, 892–904, 1004–1012; White-throated, 438–454, 892–904  
 Sparrowhawk, Eurasian, 163–171, 1069–1076  
 spatial, – autocorrelation, 500–511; – scale, 368–382; – variation, 438–454  
 speciation, 958–961, 1052–1065; elevational –, 119–134  
 species, – concepts, 885–887, 887–891; endangered –, 753–763; endemic –, 275–277, 660–680, 753–763; – flocks, 1052–1068; introduced –, 949–957; – limits, 660–680, 885–887, 887–891; native –, 949–957; non-indigenous –, 681–694; – recovery, 587–593; – richness, 275–277, 1110–1128; threatened –, 1090–1102  
 specimens, museum –, 266–274, 905–906  
 spectrophotometry, 211–234  
 sperm, 383–392; – competition, 383–392; – morphology, 383–392  
 Spheniscidae, 858–869  
*Spheniscus mendiculus*, 625–638  
*Sphyrapius*, 235–246  
*Spiza americana*, 183–197  
*Spizella breweri breweri*, 512–523  
*S. pallida*, 807–821  
*S. passerina*, 1110–1128  
 spoonbills, 1183–1184  
*Sporopipes frontalis*, 1022–1037  
 spot mapping, 438–454  
 stable-hydrogen isotope ratio, 431–437, 822–835  
 Starling, European, 97–107, 949–957, 1004–1012, 1069–1076  
 Steinbacher, Joachim, 1911–2005, In Memoriam, 1192  
 stepping-stone hypothesis, 455–466  
 Stercorariidae, 926–936  
 Stercorariinae, 926–936  
*Stercorarius longicaudus*, 926–936  
*S. skua*, 926–936  
*Sterna*, 211–234, 926–936  
*S. dougallii*, 926–936  
*S. forsteri*, 926–936  
*S. fuscata*, 926–936  
*S. hirundo*, 775–783, 926–936  
*S. paradisaea*, 926–936  
*S. serrata*, 926–936  
 Sterninae, 926–936  
*Sternula*, 926–936  
*S. albifrons*, 926–936  
*S. antillarum*, 926–936  
*S. supercilialis*, 926–936  
 Stokke, Bård G., see Antonov, Anton, et al.  
 stopover, 822–835, 836–846, 1069–1076; – habitats, 313–322; – sites, 563–574; spring –, 323–334  
 Storer, Robert W., The grebe-flamingo connection: A rebuttal, 1183–1184

- Stork, White, 524-536, 1103-1109
- Storm-Petrel, Ashy, 681-694; Black-bellied, 926-936;  
Leach's, 524-536, 775-783; White-bellied, 926-936
- Stotz, Douglas F., see Banks, Richard C., et al.
- Streptopelia*, 926-936
- S. risoria*, 405-418, 926-936
- S. roseogrisea*, 926-936
- S. senegalensis*, 1022-1037
- stress, metabolic -, 870-876
- Strigops habroptilus*, 949-957
- Strix aluco*, 877-884
- S. nebulosa*, 892-904
- S. occidentalis*, 1090-1102
- S. o. lucida*, 1090-1102
- S. o. occidentalis*, 1090-1102
- Sturnella magna*, 183-197
- S. neglecta*, 211-234, 807-821, 991-1003
- Sturnus vulgaris*, 97-107, 949-957, 1004-1012, 1069-1076
- Stutchbury, Bridget J. M., see Fedy, Bradley C., and -  
suboscine, 639-649, 887-891
- subspecies, 266-274, 885-887, 887-891
- successful reproduction hypothesis, 708-721
- Sula nebouxii*, 625-638
- S. sula*, 625-638
- Sunbird, Lesser Double-collared, 1004-1012; Orange-  
tufted, 1004-1012
- survey, 33-44, 735-752; bird -, 1172-1182; cue count  
-, 345-357; - methods, 735-752; multispecies -,  
345-357; single species -, 345-357; - techniques,  
695-707
- survival, 153-161, 681-694, 764-774, 858-869, 877-884;  
- consequences, 467-474; fledgling -, 764-774;  
juvenile -, 847-857; prefledgling -, 1077-1089;  
- rate, 877-884
- Swallow, Barn, 153-161, 1013-1021; Tree, 500-511,  
512-523, 775-783, 1013-1021
- Swarthout, Elliott C. H., see Fitzpatrick, John W., et al.
- switching, 991-1003
- Sylvia atricapilla*, 313-322, 383-392, 537-547, 1069-1076
- S. curruca*, 383-392
- Sylviidae, 1052-1068
- Syma*, 487-499
- S. torotoro*, 487-499
- synchrony, population -, 784-794
- syntax, 1129-1148
- Synthliboramphus antiquus*, 681-694, 722-734
- S. hypoleucus*, 681-694
- systematic ornithology, 266-274
- systematics, 335-344, 487-499, 887-891; molecular -,  
660-680, 1052-1065
- Tachycineta bicolor*, 500-511, 512-523, 775-783, 1013-1021
- Taeniopygia bichenovii*, 1022-1037
- T. guttata*, 383-392, 775-783, 1004-1012, 1129-1148,  
1161-1171
- tallgrass prairie, 183-197
- Tanager, Scarlet, 1172-1182; Summer, 1110-1128;  
Western, 438-454
- Tanysiptera*, 487-499
- T. galatea*, 487-499
- Tapera naevia*, 16-22
- Tattler, Gray-tailed, 926-936; Wandering, 926-936
- taxonomy, 266-274, 487-499, 660-680, 885-887,  
1052-1065
- Tchagra, Black-crowned, 1022-1037
- Tchagra senegala*, 1022-1037
- Telespiza*, 335-344
- T. cantans*, 335-344
- T. persecutrix*, 335-344
- T. ultima*, 335-344
- T. ypsilon*, 335-344
- Telleria, José Luis, see de Juana, Eduardo, and -  
telomere, 775-783
- Temeles, Ethan J., review by, 605-607
- Tern, 211-234; Aleutian, 926-936; Arctic, 926-936;  
Black, 926-936; Bridled, 926-936; Caspian, 926-  
936; Common, 775-783, 926-936; Elegant, 926-  
936; Forster's, 926-936; Great Crested, 926-936;  
Gray-backed, 926-936; Gull-billed, 926-936; Inca,  
926-936; Large-billed, 926-936; Least, 926-936;  
Little, 926-936; Roseate, 926-936; Royal, 926-936;  
Sandwich, 926-936; Sooty, 926-936; Whiskered,  
926-936; White, 926-936; White-winged, 926-936;  
Yellow-billed, 926-936
- territorial, 1129-1148; - intrusions, 61-66
- territoriality, 61-66, 795-806
- territory, natal -, 847-857; - loss, 962-966; - mapping,  
345-357; - size, 438-454
- testes, 383-392
- testosterone, 61-66, 548-562
- Tetrao tetrix*, 1090-1102
- Texas, South -, 171-182
- Thalasseus*, 926-936
- T. bergii*, 926-936
- T. elegans*, 926-936
- T. maximus*, 926-936
- T. sandvicensis*, 926-936
- Thalassidroma leucogaster*, 926-936
- T. tropica*, 926-936
- Thalurania furcata*, 885-887
- Thamnophilus caeruleus*, 887-891
- T. c. "connectens"*, 887-891
- T. c. dinellii*, 887-891
- T. c. paraguayensis*, 887-891
- thermoregulation, 1013-1021
- Thogmartin, Wayne E., et al., A review of the  
population estimation approach of the North  
American Landbird Conservation Plan, 892-904
- Thomas, Carmen M., Schwarzbach, Steven E., et al.
- Thompson, Christopher W. see Benowitz-Fredericks,  
Z Morgan, et al.
- Thompson, Frank R., III, see Thogmartin, Wayne E., et al.
- Thompson, John N., The Geographic Mosaic of  
Coevolution (rev.), 605-607
- Thrasher, California, 892-904; Curve-billed, 171-182;  
Long-billed, 171-182

- Thrush, 259–265; Bicknell's, 431–437, 1038–1051;  
 Creamy-bellied, 16–22, 23–32; Hermit, 735–752,  
 1052–1068; Rufous-bellied, 23–32; 301–312;  
 Song, 383–392, 949–957; Swainson's, 431–437,  
 1052–1068; Wood, 301–312, 500–511, 1004–1012,  
 1052–1068, 1110–1128
- Thryomanes*, 926–936
- T. sissonii*, 926–936
- Thryothorus ludovicianus*, 991–1003, 1110–1128
- T. nigricapillus*, 61–66, 119–134
- T. pleurostictus*, 991–1003
- Tiaris obscura*, 1022–1037
- tinamous, 1183–1184
- Tit, Blue, 163–171, 211–234, 537–547, 548–562, 1013–  
 1021; Crested, 1013–1021, 1149–1160; Great, 153–  
 161, 345–357, 383–392, 548–562, 639–649, 650–659,  
 991–1003, 1013–1021; Penduline, 467–474; Willow,  
 383–392, 1069–1076
- Titmouse, Bridled, 512–523; Tufted, 991–1003, 1110–  
 1128, 1172–1182
- Tmethothylacus*, 455–466
- Todidae, 487–499
- Todiramphus*, 487–499
- T. chloris*, 487–499
- T. leucopygius*, 487–499
- T. ruficollaris*, 487–499
- T. sanctus*, 487–499
- T. tutus*, 487–499
- Todus angustirostris*, 487–499
- Tody, Narrow-billed, 487–499
- Tomás, Gustavo, et al., Nest weight and female health  
 in the Blue Tit (*Cyanistes caeruleus*), 1013–1021
- Toms, Judith D., et al., Are point counts of boreal  
 songbirds reliable proxies for more intensive  
 abundance estimators?, 438–454
- Toucanets, Emerald, 847–857
- Towhee, Eastern, 500–511, 1110–1128
- Toxostoma curvirostre*, 171–182
- T. longirostre*, 171–182
- T. redivivum*, 892–904
- Traylor, Joshua J., and Alisauskas, Ray T., Effects  
 of intrinsic and extrinsic factors on survival of  
 White-winged Scoter (*Melanitta fusca deglandi*)  
 ducklings, 67–81
- Trichoglossus haematodus*, 1004–1012
- triglyceride, 563–574, 836–846
- Tringa*, 926–936
- T. brevipes*, 926–936
- T. erythropus*, 926–936
- T. flavipes*, 587–593, 926–936
- T. glareola*, 926–936
- T. incana*, 926–936
- T. melanoleuca*, 587–593, 926–936
- T. nebularia*, 926–936
- T. ochropus*, 926–936
- T. semipalmata*, 926–936
- T. solitaria*, 926–936
- T. stagnatilis*, 926–936
- T. totanus*, 926–936, 1069–1076
- Tringini, 926–936
- Trochilidae, 1129–1148
- Trochilinae, 1129–1148
- Troglodytes*, 926–936
- T. aedon*, 23–32, 119–134, 926–936, 1149–1160
- T. bewickii*, 926–936
- T. insularis*, 926–936
- T. sissonii*, 926–936
- T. troglodytes*, 345–357, 467–474, 735–752
- tropical birds, 61–66
- Tryjanowski, Piotr, see Chernetsov, Nikita, et al.
- Tsahar, Ella, et al., Do nectar- and fruit-eating  
 birds have lower nitrogen requirements than  
 omnivores? An allometric test, 1004–1012
- Tungbani, Agba Issahaku, see Beier, Paul, and –
- Turdidae, 1052–1068
- Turdus*, 259–265, 1052–1068
- T. amaurochalinus*, 16–22, 23–32
- T. merula*, 163–171, 383–392, 949–957
- T. migratorius*, 135–140, 1004–1012, 1052–1068
- T. obscurus*, 1052–1068
- T. philomelos*, 383–392, 949–957
- T. rufigiventris*, 23–32
- Turkey, Wild, 405–418, 1004–1012
- Turtle-Dove, Ringed, 405–418, 926–936
- Turtur, 1022–1037
- Tweed, Erik J., et al., Breeding biology and success  
 of a reintroduced population of the critically  
 endangered Puaiohi (*Myadestes palmeri*), 753–763
- Tympanuchus cupido*, 183–197, 949–957
- Tyrannus tyrannus*, 512–523
- Tyto alba*, 753–763
- Uraeginthus angolensis*, 1022–1037
- U. bengalus*, 1022–1037
- urban, 368–382
- Urban, Emil K., review by, 913–915
- Uria aalge*, 722–734
- U. craveri*, 335–344
- U. lomvia*, 681–694
- Vanellus spinosus*, 708–721
- variation, geographic –, 266–274, 563–574, 822–835,  
 1090–1102; intraspecific –, 885–887; molecular –,  
 885–887; sexual –, 235–246
- Veery, 1052–1068
- vegetation, 1110–1128; – structure, 368–382
- Vermivora celata*, 431–437
- V. chrysoptera*, 887–891, 958–961, 962–966
- V. pinus*, 887–891, 958–961, 962–966
- veterinary science, 625–638
- viability hypothesis, 708–721
- Videler, J. J., Avian Flight (rev.), 1198–1199
- video, 1185–1189; digital –, 967–990
- Villard, Marc-André, see Toms, Judith D., et al.
- Vireo atricapilla*, 301–312
- V. helii*, 183–197

- V. flavifrons*, 1110–1128  
*V. griseus*, 171–182, 301–312, 1110–1128  
*V. olivaceus*, 438–454, 1110–1128, 1172–1182  
*V. plumbeus*, 23–32  
*V. solitarius*, 885–887, 1172–1182  
*V. vicinior*, 23–32  
Vireo, 1172–1182; Bell's, 183–197; Black-capped, 301–312; Blue-headed, 1172–1182; Gray, 23–32; Plumbeous, 23–32; Red-eyed, 438–454, 1110–1128, 1172–1182; White-eyed, 171–182, 301–312, 1110–1128; Yellow-throated, 1110–1128  
Viswanathan, Mohan, see Rosser, Benjamin W. C., and –  
Vleck, Carol M., see Juola, Frans A., et al.  
vocal, – adjustment, 639–649; – behavior, 1129–1148; – learners, 1129–1148  
vocalizations, 639–649, 885–887, 887–891, 967–990, 1129–1148  
Voelker, Gary, see Outlaw, Diana C., and –  
Vuilleumier, François, In Memoriam: Jack Davies Goodall Callaway (Galloway?), 1892 (1893?)–1980, 594–595  
Vulture, 892–904; Turkey, 892–904  
  
wagtails, 455–466  
Wallace's line, 487–499  
Walters, Jeffrey R., see Allen, Jennifer C., et al.  
Warbler, 211–234, 211–234, 419–430, 431–437, 1052–1068; Black-and-white, 1110–1128; Black-throated Blue, 313–322, 431–437; Black-throated Green, 438–454; Blue-winged, 887–891, 958–961, 962–966; Brewster's, 958–961, 962–966; Cerulean, 438–454, 795–806; Connecticut, 438–454, 892–904; Golden-cheeked, 1038–1051; Golden-winged, 887–891, 958–961, 962–966; Great Reed, 419–430, 467–474; Hooded, 1038–1051, 1110–1128; Kentucky, 82–96, 301–312; Marsh, 419–430; Mourning, 438–454; Moustached, 383–392; Olivaceous, 419–430; Orange-crowned, 431–437; Pine, 500–511, 1110–1128; Prairie, 301–312, 500–511, 1110–1128; Sedge, 383–392, 524–536, 991–1003; Townsend's, 735–752; Willow, 345–357, 383–392; Wilson's, 431–437; Worm-eating, 301–312; Yellow, 16–22, 431–437, 625–638, 708–721; Yellow-rumped, 438–454; Yellow-throated, 1110–1128  
Warbling-Finch, Cinnamon, 358–367  
Warner, Dwain W., 1917–2005, In Memoriam, 911–912  
wasp, 1022–1037  
waterfowl, 67–81, 198–210, 335–344, 405–418, 500–511  
Watts, Bryan D., et al., Salinity and population parameters of Bald Eagles (*Haliaeetus leucocephalus*) in the lower Chesapeake Bay, 393–404  
Waxbill, Lavender, 1022–1037  
Waxwing, Cedar, 836–846, 1004–1012  
weather, 512–523, 537–547  
Weatherhead, Patrick J., see Maddox, J. Dylan, and –  
Weaver, 1022–1037; Baya, 467–474; Little, 1022–1037; Spectacle-fronted, 1022–1037; Village, 467–474  
Webster, Richard E., review by, 293–294  
Whip-poor-will, 892–904  
Whiteman, Noah Kerness, see Parker, Patricia G., et al.  
Whitethroat, Lesser, 383–392  
Wilkinson, Gerald S., see Munshi-South, Jason, and –  
Willet, 926–936  
Williams, Dean A., and Hale, Amanda M., Helper effects on offspring production in cooperatively breeding Brown Jays (*Cyanocorax morio*), 847–857  
Williams, Jeffrey C., see Major, Heather L., et al.  
Williams, Tony D., see Seaman, Dana A. Acevedo, et al.  
Wilson, Scott, and Arcese, Peter, Nest depredation, brood parasitism, and reproductive variation in island populations of Song Sparrows (*Melospiza melodia*), 784–794  
Wilsonia citrina, 1038–1051, 1110–1128  
*W. pusilla*, 431–437  
wind chill, 1149–1160  
wing, – loading, 722–734; – pattern, 905–906  
Winker, Kevin, and Pruett, Christin L., Seasonal migration, speciation, and morphological convergence in the genus *Catharus* (Turdidae), 1052–1068  
Winker, Kevin, In Memoriam: Dwain W. Warner, 1917–2005, 911–912  
wood doves, 1022–1037  
Wood, William E., and Yezerinac, Stephen M., Song Sparrow (*Melospiza melodia*) song varies with urban noise, 650–659  
Woodhoopoe, Green, 1022–1037  
Woodin, Marc C., review by, 1199–1201  
woodlands, pinyon-juniper –, 33–44  
woodlots, 1149–1160  
Woodpecker, 1–15, 235–246, 587–593; American Three-toed, 235–246; Black, 587–593; Black-backed, 235–246; Downy, 235–246, 587–593; Eurasian Three-toed, 235–246; Great Spotted, 235–246; Hairy, 235–246, 587–593; Ivory-billed, 1–15, 301–312, 587–593, 1185–1189, 1189; Pileated, 1–15, 587–593, 1185–1189; Red-bellied, 1–15, 1110–1128; Red-cockaded, 1–15, 587–593, 1110–1128; Red-headed, 1110–1128; White-headed, 235–246  
Wood-Pewee, Eastern, 1110–1128  
wood-warbler, 991–1003  
Woodworth, Bethany L., see Kilpatrick, A. Marm, et al.  
Woodworth, Bethany L., see Tweed, Erik J., et al.  
Wood-wren, 119–134; Bar-winged, 119–134; Gray-breasted, 119–134; White-breasted, 119–134  
Wrege, Peter H., see Fitzpatrick, John W., et al.  
Wren, Banded, 991–1003; Bay, 61–66; Cactus, 892–904; Carolina, 991–1003, 1110–1128; House, 23–32, 1149–1160; Rock, 991–1003; Rufous-naped, 1022–1037; Sedge, 991–1003; Socorro, 926–936; Stripe-backed, 847–857; Winter, 345–357, 467–474, 735–752  
Wright, Timothy F., review by, 291–292

- Xanthopsar flavus*, 211–234  
*Xenus cinereus*, 926–936  
*Xestospiza*, 335–344  
*X. conica*, 335–344
- Yellowhammer, 383–392, 949–957  
Yellowhead, 949–957  
Yellowlegs, Greater, 587–593, 926–936; Lesser, 587–593, 926–936  
Yellowthroat, Common, 431–437, 892–904, 1110–1128  
Yezerinac, Stephen M., see Wood, William E., and –
- Zaiglin, Robert E., see Flanders, Aron A., et al.  
*Zenaida asiatica*, 171–182, 822–835  
*Z. galapagoensis*, 625–638  
*Z. macroura*, 183–197, 512–523, 1110–1128  
Zink, Robert M., 282–283  
Zink, Robert M., Rigor and species concepts, 887–891  
Zollner, Douglas, see Fitzpatrick, John W., et al.  
zonation, elevational –, 119–134  
*Zonotrichia albicollis*, 438–454, 892–904  
*Z. capensis*, 23–32, 358–367  
*Z. leucophrys*, 431–437, 512–523, 836–846, 892–904, 1004–1012  
*Zootheria naevia*, 1052–1068  
Zusi, Richard L., In Memoriam: Paul Slud, 1919–2006, 1196–1197

# The Auk

A Quarterly Journal of Ornithology

EDITOR

SPENCER G. SEALY

MANAGER

KIMBERLY G. SMITH

PROJECT MANAGER

MARK C. PENROSE

MANAGING EDITOR

RICHARD D. EARLES

REVIEW MANAGER

NOREEN L. SEALY

MEMORIALS EDITOR

ALAN H. BRUSH

BOOK REVIEW EDITOR

R. TODD ENGSTROM



Volume 123

PUBLISHED BY

THE AMERICAN ORNITHOLOGISTS' UNION

2006



# Contents of Volume 123



## NUMBER 1

### PERSPECTIVES IN ORNITHOLOGY

- IVORY-BILLED WOODPECKER (*CAMPEPHILUS PRINCIPALIS*): HOPE, AND THE INTERFACES OF SCIENCE, CONSERVATION, AND POLITICS. *Jerome A. Jackson* ..... 1

### OVERVIEW

- EGG DESTRUCTION AND EGG REMOVAL BY AVIAN BROOD PARASITES: ADAPTIVENESS AND CONSEQUENCES. *Brian D. Peer* ..... 16

### RESEARCH ARTICLES

- COSTS OF EGG PUNCTURES AND PARASITISM BY SHINY COWBIRDS (*MOLOTHRUS BONARIENSIS*) AT CREAMY-BELLIED THRUSH (*TURDUS AMAUROCHALINUS*) NESTS. *Andrea A. Astié and Juan C. Reboreda* ..... 23
- ABUNDANCE AND HABITAT PREFERENCES OF GRAY VIREOS (*VIREO VICINIOR*) ON THE COLORADO PLATEAU. *Scott Schlossberg* ..... 33
- EFFECTS OF PREDATION, FLOODING, AND CONTAMINATION ON REPRODUCTIVE SUCCESS OF CALIFORNIA CLAPPER RAILS (*RALLUS LONGIROSTRIS OBSOLETUS*) IN SAN FRANCISCO BAY. *Steven E. Schwarzbach, Joy D. Albertson, and Carmen M. Thomas* ..... 45
- TESTOSTERONE DOES NOT INCREASE IN RESPONSE TO CONSPECIFIC CHALLENGES IN THE WHITE-BELLIED ANTIBIRD (*MYRMECIZA LONGIPES*), A RESIDENT TROPICAL PASSERINE. *Bradley C. Fedy and Bridget J. M. Stutchbury* ..... 61
- EFFECTS OF INTRINSIC AND EXTRINSIC FACTORS ON SURVIVAL OF WHITE-WINGED SCOTER (*MELANITTA FUSCA DEGLANDI*) DUCKLINGS. *Joshua J. Traylor and Ray T. Alisauskas* ..... 67
- FACTORS INFLUENCING PREDATION ON OVENBIRD (*SEIURUS AUROCAPILLA*) NESTS IN NORTHERN HARDWOODS: INTERACTIONS ACROSS SPATIAL SCALES. *Brady J. Mattsson and Gerald J. Niemi* ..... 82
- FOOD LIMITATION DURING BREEDING IN A HETEROGENEOUS LANDSCAPE. *Martin Granbom and Henrik G. Smith* ..... 97
- DIET INFLUENCES LIFE SPAN IN PARROTS (PSITTACIFORMES). *Jason Munshi-South and Gerald S. Wilkinson* ..... 108
- ELEVATIONAL ZONATION AND THE PHYLOGENETIC RELATIONSHIPS OF THE HENICORHINA WOOD-WRENS. *Caroline Dingle, Irby J. Lovette, Chris Canaday, and Thomas B. Smith* ..... 119
- NESTS WITHOUT EGGS: ABANDONMENT OR CRYPTIC PREDATION? *J. Dylan Maddox and Patrick J. Weatherhead* ..... 135
- ARE MULTIPLE INFECTIONS MORE SEVERE FOR PURPLE MARTINS (*PROGNE SUBIS*) THAN SINGLE INFECTIONS? *Priya Davidar and Eugene S. Morton* ..... 141
- STABILITY OF PENTOSIDINE CONCENTRATIONS IN MUSEUM STUDY SKINS. *Jesse A. Fallon, William J. Radke, and Hillar Klandorf* ..... 148
- IS MELANIN A DEFENSE AGAINST FEATHER-FEEDING LICE? *Sarah E. Bush, Dukgun Kim, Brett R. Moyer, Jackson Lever, and Dale H. Clayton* ..... 153
- FORAGING BEHAVIOR AND PREDATION RISK IN MALE AND FEMALE EURASIAN BLACKBIRDS (*TURDUS MERULA*) DURING THE BREEDING SEASON. *Peter Post and Frank Götmark* ..... 162
- EFFECTS OF INVASIVE EXOTIC GRASSES ON SOUTH TEXAS RANGELAND BREEDING BIRDS. *Aron A. Flanders, William P. Kuvlesky, Jr., Donald C. Ruthven III, Robert E. Zaiglin, Ralph L. Bingham, Timothy E. Fulbright, Fidel Hernández, and Leonard A. Brennan* ..... 171
- EFFECTS OF PRESCRIBED BURNS AND BISON (*BOS BISON*) GRAZING ON BREEDING BIRD ABUNDANCES IN TALLGRASS PRAIRIE. *Alexis F. L. A. Powell* ..... 183
- NEST SURVIVAL IN DUSKY CANADA GEESE (*BRANTA CANADENSIS OCCIDENTALIS*): USE OF DISCRETE-TIME MODELS. *James B. Grand, Thomas F. Fondell, David A. Miller, and R. Michael Anthony* ..... 198

A PHYLOGENETIC PERSPECTIVE ON THE EVOLUTION OF CHROMATIC ULTRAVIOLET PLUMAGE COLORATION IN GRACKLES AND ALLIES (ICTERIDAE). <i>Muir D. Eaton</i> .....	211
FORAGING BEHAVIOR OF EURASIAN THREE-TOED WOODPECKERS ( <i>PICOIDES TRIDACTYLUS ALPINUS</i> ) IN RELATION TO SEX AND SEASON IN GERMANY. <i>Peter Pechacek</i> .....	235
A TEST OF THE ENVIRONMENTAL HOTSPOT HYPOTHESIS FOR LEK PLACEMENT IN THREE SPECIES OF MANAKINS (PIPRIDAE) IN ECUADOR. <i>Thomas B. Ryder, John G. Blake, and Bette A. Loiselle</i> .....	247
RESPONSES OF PARASITIZED AND UNPARASITIZED COMMON REDSTART ( <i>PHOENICURUS PHOENICURUS</i> ) POPULATIONS AGAINST ARTIFICIAL CUCKOO PARASITISM. <i>Jarkko Rutila, Jukka Jokimäki, Jesús M. Avilés, and Marja-Liisa Kaisanlahti-Jokimäki</i> .....	259
COMMENTARY	
DIAGNOSABILITY OF SUBSPECIES: LESSONS FROM SAGE SPARROWS ( <i>AMPHISPIZA BELLI</i> ) FOR ANALYSIS OF GEOGRAPHIC VARIATION IN BIRDS. <i>Carla Cicero and Ned K. Johnson</i> .....	266
LETTERS	
SOUTHEAST ASIAN BIRDS IN PERIL. <i>Navjot S. Sodhi, Lian Pin Koh, and Barry W. Brook</i> .....	275
IN MEMORIAM: JAMES A. HANCOCK, 1921–2004. <i>James A. Kushlan</i> .....	278
IN MEMORIAM: JOHN CALEEKAL GEORGE, 1921–2005. <i>Benjamin W. C. Rosser and Mohan Viswanathan</i> .....	279
ELLIOTT COUES AWARD, 2005: <i>Nicholas B. (Nick) Davies</i> .....	281
WILLIAM BREWSTER MEMORIAL AWARD, 2005: <i>Robert M. Zink</i> .....	282
NED K. JOHNSON YOUNG INVESTIGATOR AWARD, 2005: <i>Kevin J. McGraw</i> .....	284
AOU CONSERVATION AWARD, 2005: <i>Thomas E. Lovejoy</i> .....	285
MARION JENKINSON AOU SERVICE AWARD, 2005: <i>Kimberly G. Smith</i> .....	287
REVIEWS. <i>Edited by R. Todd Engstrom</i> .....	289
100 YEARS AGO IN THE AMERICAN ORNITHOLOGISTS' UNION .....	295

## NUMBER 2

### PERSPECTIVES IN ORNITHOLOGY

AVIAN HABITAT MANAGEMENT MEETS CONSPECIFIC ATTRACTION: IF YOU BUILD IT, WILL THEY COME? <i>Marissa A. Ahlring and John Faaborg</i> .....	301
--	-----

### OVERVIEW

MIGRATION STOPOVERS AND THE CONSERVATION OF ARCTIC-BREEDING CALIDRIDINE SANDPIPERS. <i>Susan K. Skagen</i> .....	313
--	-----

### RESEARCH ARTICLES

FAT DYNAMICS OF ARCTIC-NESTING SANDPIPERS DURING SPRING IN MID-CONTINENTAL NORTH AMERICA. <i>Gary L. Krapu, Jan L. Eldridge, Cheri L. Gratto-Trevor, and Deborah A. Buhl</i> .....	323
A NEW SPECIES OF HAWAIIAN FINCH (DREPANIDINI: LOXIODES) FROM MAKAUWAHI CAVE, KAUA'I. <i>Helen F. James and Storrs L. Olson</i> .....	335
POINT-TRANSECT SURVEYS FOR SONGBIRDS: ROBUST METHODOLOGIES. <i>Stephen T. Buckland</i> .....	345
SEED PREFERENCES IN SPARROW SPECIES OF THE MONTE DESERT, ARGENTINA: IMPLICATIONS FOR SEED-GRANIVORE INTERACTIONS. <i>Victor R. Cueto, Luis Marone, and Javier Lopez de Casenave</i> .....	358
SCALE-DEPENDENT HABITAT USE OF ACADIAN FLYCATCHER ( <i>EMPIDONAX VIRESCENS</i> ) IN CENTRAL OHIO. <i>Marja H. Bakermans and Amanda D. Rodewald</i> .....	368
UNUSUAL SPERM MORPHOLOGY IN THE EURASIAN BULLFINCH ( <i>PYRRHULA PYRRHULA</i> ). <i>Timothy R. Birkhead, Simone Immler, E. Jayne Pellatt, and Robert Freckleton</i> .....	383

SALINITY AND POPULATION PARAMETERS OF BALD EAGLES ( <i>Haliaeetus leucocephalus</i> ) IN THE LOWER CHESAPEAKE BAY. Bryan D. Watts, A. Catherine Markham, and Mitchell A. Byrd .....	393
ECOLOGICAL AND PHYSIOLOGICAL FACTORS AFFECTING BROOD PATCH AREA AND PROLACTIN LEVELS IN ARCTIC-NESTING GEESE. Jón Einar Jónsson, Alan D. Afton, Ray T. Alisauskas, Cynthia K. Bluhm, and Mohamed E. El Halawani .....	405
EGG REJECTION IN MARSH WARBLERS ( <i>Acrocephalus palustris</i> ) HEAVILY PARASITIZED BY COMMON CUCKOOS ( <i>Cuculus canorus</i> ). Anton Antonov, Bård G. Stokke, Arne Moksnes, and Eivind Røskoft .....	419
STABLE ISOTOPE EVIDENCE LINKS BREEDING GEOGRAPHY AND MIGRATION TIMING IN WOOD WARBLERS (PARULIDAE). Jeffrey F. Kelly .....	431
ARE POINT COUNTS OF BOREAL SONGBIRDS RELIABLE PROXIES FOR MORE INTENSIVE ABUNDANCE ESTIMATORS? Judith D. Toms, Fiona K. A. Schmiegelow, Susan J. Hannon, and Marc-André Villard .....	438
PHYLOGENETIC TESTS OF HYPOTHESES FOR THE EVOLUTION OF AVIAN MIGRATION: A CASE STUDY USING THE MOTACILLIDAE. Diana C. Outlaw and Gary Voelker .....	455
HOME-RANGE CHARACTERISTICS, AGE, BODY SIZE, AND BREEDING PERFORMANCE OF FEMALE MALLARDS ( <i>Anas platyrhynchos</i> ). Glenn G. Mack and Robert G. Clark .....	467
WHAT MAKES A GOOD NEST? BENEFITS OF NEST CHOICE TO FEMALE BAYA WEAVERS ( <i>Ploceus philippinus</i> ). Suhel Quader .....	475
A MOLECULAR PHYLOGENY OF KINGFISHERS (ALCEDINIDAE) WITH INSIGHTS INTO EARLY BIOGEOGRAPHIC HISTORY. Robert G. Moyle .....	487
TRACKING DISPERSAL IN BIRDS: ASSESSING THE POTENTIAL OF ELEMENTAL MARKERS. Therese Donovan, Jeffrey Buzas, Peter Jones, and H. Lisle Gibbs .....	500
SEASONAL FECUNDITY OF SAGEBRUSH BREWER'S SPARROW ( <i>Spizella breweri breweri</i> ) AT THE NORTHERN EDGE OF ITS BREEDING RANGE. Nancy A. Mahony, Pamela G. Krannitz, and Kathy Martin .....	512
MATE OPPORTUNITY HYPOTHESIS AND EXTRAPAIR PATERNITY IN WAVED ALBATROSSES ( <i>Phoebastria irrorata</i> ). Kathryn P. Huyvaert, David J. Anderson, and Patricia G. Parker .....	524
DO PARTIAL AND REGULAR MIGRANTS DIFFER IN THEIR RESPONSES TO WEATHER? Anna L. K. Nilsson, Thomas Alerstam, and Jan-Åke Nilsson .....	537
TESTOSTERONE TREATMENT TO FREE-RANGING MALE DARK-EYED JUNCOS ( <i>Junco hyemalis</i> ) EXACERBATES HEMOPARASITIC INFECTION. Pierre Devoche and Jennifer Parris .....	548
LANDSCAPE-SCALE PHYSIOLOGY: SITE DIFFERENCES IN REFUELING RATES INDICATED BY PLASMA METABOLITE ANALYSIS IN FREE-LIVING MIGRATORY SANDPIPERS. Dana A. Acevedo Seaman, Christopher G. Guglielmo, Robert W. Elner, and Tony D. Williams .....	563
COMMENTARY	
TECHNIQUES FOR STUDYING INTEGRATED IMMUNE FUNCTION IN BIRDS. Katrina G. Salvante .....	575
LETTERS	
CLARIFICATIONS ABOUT CURRENT RESEARCH ON THE STATUS OF IVORY-BILLED WOODPECKER ( <i>Campephilus principalis</i> ) IN ARKANSAS. John W. Fitzpatrick, Martjan Lammertink, M. David Luneau, Jr., Tim W. Gallagher, Bobby R. Harrison, Gene M. Sparling, Kenneth V. Rosenberg, Ronald W. Rohrbaugh, Elliott C. H. Swarthout, Peter H. Wrege, Sara Barker Swarthout, Marc S. Dantzker, Russell A. Charif, Timothy R. Barksdale, J. V. Remsen, Jr., Scott D. Simon, and Douglas Zollner .....	587
IN MEMORIAM: JACK DAVIES GOODALL CALLAWAY (GALLOWAY?), 1892 (1893?)–1980. François Vuilleumier .....	594
IN MEMORIAM: DONALD R. GRIFFIN, 1915–2003. Irene M. Pepperberg .....	595
IN MEMORIAM: JAMES L. GULLEDGE, 1932–2001. Walter J. Bock .....	597
REVIEWS. Edited by R. Todd Engstrom .....	599
ERRATUM .....	610
100 YEARS AGO IN THE AMERICAN ORNITHOLOGISTS' UNION .....	611

## NUMBER 3

## PERSPECTIVES IN ORNITHOLOGY

- CONSERVATION MEDICINE ON THE GALÁPAGOS ISLANDS: PARTNERSHIPS AMONG BEHAVIORAL, POPULATION, AND VETERINARY SCIENTISTS. *Patricia G. Parker, Noah Kerness Whiteman, and R. Eric Miller* ..... 625

## OVERVIEW

- AVIAN COMMUNICATION IN URBAN NOISE: CAUSES AND CONSEQUENCES OF VOCAL ADJUSTMENT. *Gail L. Patricelli and Jessica L. Blickley* ..... 639

## RESEARCH ARTICLES

- SONG SPARROW (*MELOSPIZA MELODIA*) SONG VARIES WITH URBAN NOISE. *William E. Wood and Stephen M. Yezerinac* ..... 650
- MOLECULAR SYSTEMATICS AND PATTERNS OF DIVERSIFICATION IN PYRRHURA (PSITTACIDAE), WITH SPECIAL REFERENCE TO THE PICTA-LEUCOTIS COMPLEX. *Camila C. Ribas, Leo Joseph, and Cristina Y. Miyaki* ..... 660
- ASSESSING THE EFFECTS OF INTRODUCED NORWAY RATS (*RATTUS NORVEGICUS*) ON SURVIVAL AND PRODUCTIVITY OF LEAST AUKLETS (*AETHIA PUSILLA*). *Heather L. Major, Ian L. Jones, G. Vernon Byrd, and Jeffrey C. Williams* ..... 681
- ESTIMATING DETECTION PROBABILITIES OF RIVER BIRDS USING DOUBLE SURVEYS. *Robert J. Fletcher, Jr. and Richard L. Hutto* ..... 695
- A NEW EQUATION FOR CALCULATING REPRODUCTIVE SUCCESS OF CLUTCHES AS A FUNCTION OF THE DAY ON WHICH INCUBATION STARTS: SOME IMPLICATIONS. *Bertram G. Murray, Jr.* ..... 708
- GROWTH AND ALLOCATION IN CAPTIVE COMMON MURRE (*URIA AALGE*) CHICKS. *Z Morgan Benowitz-Fredericks, Alexander S. Kitaysky, and Christopher W. Thompson* ..... 722
- ESTIMATING DETECTION PROBABILITY AND DENSITY FROM POINT-COUNT SURVEYS: A COMBINATION OF DISTANCE AND DOUBLE-OBSERVER SAMPLING. *Michelle L. Kissling and Edward O. Garton* ..... 735
- BREEDING BIOLOGY AND SUCCESS OF A REINTRODUCED POPULATION OF THE CRITICALLY ENDANGERED PUAIOHI (*MYADESTES PALMERI*). *Erik J. Tweed, Jeffrey T. Foster, Bethany L. Woodworth, William B. Monahan, Jherime L. Kellerman, and Alan Lieberman* ..... 753
- EFFECTS OF CHRONIC AVIAN MALARIA (*PLASMODIUM RELICTUM*) INFECTION ON REPRODUCTIVE SUCCESS OF HAWAII AMAKIHI (*HEMIGNATHUS VIRENS*). *A. Marm Kilpatrick, Dennis A. LaPointe, Carter T. Atkinson, Bethany L. Woodworth, Julie K. Lease, Matthew E. Reiter, and Kevin Gross* ..... 764
- TELOMERE SHORTENING IN A LONG-LIVED MARINE BIRD: CROSS-SECTIONAL ANALYSIS AND TEST OF AN AGING TOOL. *Frans A. Juola, Mark F. Haussmann, Donald C. Dearborn, and Carol M. Vleck* ..... 775
- NEST DEPREDATION, BROOD PARASITISM, AND REPRODUCTIVE VARIATION IN ISLAND POPULATIONS OF SONG SPARROWS (*MELOSPIZA MELODIA*). *Scott Wilson and Peter Arcese* ..... 784
- WITHIN-TERRITORY HABITAT USE AND MICROHABITAT SELECTION BY MALE CERULEAN WARBLERS (*DENDROICA CERULEA*). *Jennifer J. Barg, Deviah M. Aiama, Jason Jones, and Raleigh J. Robertson* ..... 795
- MIXED-GRASS PRAIRIE PASSERINES EXHIBIT WEAK AND VARIABLE RESPONSES TO PATCH SIZE. *Stephen K. Davis, R. Mark Brigham, Terry L. Shaffer, and Paul C. James* ..... 807
- A GEOGRAPHIC-INFORMATION-SYSTEM APPROACH TO ESTIMATING THE ORIGIN OF MIGRATORY RAPTORS IN NORTH AMERICA USING STABLE HYDROGEN ISOTOPE RATIOS IN FEATHERS. *Casey A. Lott and Jeff P. Smith* ..... 822
- DIETARY EFFECTS ON PREDICTION OF BODY MASS CHANGES IN BIRDS BY PLASMA METABOLITES. *David J. Cerasale and Christopher G. Guglielmo* ..... 836
- HELPER EFFECTS ON OFFSPRING PRODUCTION IN COOPERATIVELY BREEDING BROWN JAYS (*CYANOCORAX MORIO*). *Dean A. Williams and Amanda M. Hale* ..... 847
- EFFECTS OF FLIPPER BANDS ON FORAGING BEHAVIOR AND SURVIVAL OF ADÉLIE PENGUINS (*PYGOSCELIS ADELIAE*). *Katie M. Dugger, Grant Ballard, David G. Ainley, and Kerry J. Barton* ..... 858

INTERSPECIES COMPARISON OF PENTOSIDINE ACCUMULATION AND ITS CORRELATION WITH AGE IN BIRDS. <i>Jesse A. Fallon, Robert L. Cochrane, Brian Dorr, and Hillar Klandorf</i> .....	870
POSTFLEDGING DEPENDENCE PERIOD OF MIGRATORY GOLDEN EAGLES ( <i>AQUILA CHRYSAETOS</i> ) IN DENALI NATIONAL PARK AND PRESERVE, ALASKA. <i>Carol L. McIntyre and Michael W. Collopy</i> .....	877
COMMENTARY	
CONSISTENCY OF TAXONOMIC TREATMENTS: A RESPONSE TO REMSEN (2005). <i>A. Townsend Peterson and Adolfo G. Navarro-Sigüenza</i> .....	885
RIGOR AND SPECIES CONCEPTS. <i>Robert M. Zink</i> .....	887
A REVIEW OF THE POPULATION ESTIMATION APPROACH OF THE NORTH AMERICAN LANDBIRD CONSERVATION PLAN. <i>Wayne E. Thogmartin, Frank P. Howe, Frances C. James, Douglas H. Johnson, Eric T. Reed, John R. Sauer, and Frank R. Thompson III</i> .....	892
LETTERS	
RELATIONSHIPS OF THE MASKED GULLS. <i>William R. P. Bourne</i> .....	905
RELATIONSHIPS OF GULLS—A REPLY TO BOURNE. <i>Allan J. Baker, Andrew D. Given, and James A. Mills</i> .....	906
IN MEMORIAM: STANLEY HELMER ANDERSON, 1939–2005. <i>Kevin J. Gutzwiller</i> .....	908
IN MEMORIAM: SIEGFRIED ECK, 1942–2005. <i>Jochen Martens</i> .....	910
IN MEMORIAM: DWAIN W. WARNER, 1917–2005. <i>Kevin Winker</i> .....	911
REVIEWS. <i>Edited by R. Todd Engstrom</i> .....	913
100 YEARS AGO IN THE AMERICAN ORNITHOLOGISTS' UNION .....	924
FORTY-SEVENTH SUPPLEMENT TO THE AMERICAN ORNITHOLOGISTS' UNION CHECK-LIST OF NORTH AMERICAN BIRDS .....	926

## NUMBER 4

## PERSPECTIVES IN ORNITHOLOGY

INTRODUCED BIRDS AS MODEL SYSTEMS FOR THE CONSERVATION OF ENDANGERED NATIVE BIRDS. <i>James V. Briskie</i> .....	949
--	-----

## OVERVIEW

SECONDARY CONTACT AND INTROGRESSION OF GOLDEN-WINGED WARBLERS ( <i>VERMIVORA CHRYSOPTERA</i> ): DOCUMENTING THE MECHANISM. <i>John L. Confer</i> .....	958
---	-----

## RESEARCH ARTICLES

IMPORTANCE OF FACIAL PATTERN TO SEXUAL SELECTION IN GOLDEN-WINGED WARBLER ( <i>VERMIVORA CHRYSOPTERA</i> ). <i>Ellen R. Leichthy and James W. Grier</i> .....	962
COURTSHIP ETHOLOGY OF CAROLA'S PAROTIA ( <i>PAROTIA CAROLAE</i> ). <i>Edwin Scholes III</i> .....	967
SINGING COMPLEXITY OF THE BANDED WREN ( <i>THRYOTHORUS PLEUROSTICTUS</i> ): DO SWITCHING RATE AND SONG-TYPE DIVERSITY SEND DIFFERENT MESSAGES? <i>Laura E. Molles</i> .....	991
DO NECTAR- AND FRUIT-EATING BIRDS HAVE LOWER NITROGEN REQUIREMENTS THAN OMNIVORES? AN ALLOMETRIC TEST. <i>Ella Tsahar, Zeev Arad, Ido Izhaki, and Carlos Martínez del Río</i> .....	1004
NEST WEIGHT AND FEMALE HEALTH IN THE BLUE TIT ( <i>CYANISTES CAERULEUS</i> ). <i>Gustavo Tomás, Santiago Merino, Juan Moreno, Juan J. Sanz, Judith Morales, and Sonia García-Fraile</i> .....	1013
NESTING WITH THE WASP <i>ROPALIDIA CINCTA</i> INCREASES NEST SUCCESS OF RED-CHEEKED CORDONBLEU ( <i>URAEGINTHUS BENGALUS</i> ) IN GHANA. <i>Paul Beier and Agba Issahaku Tungbani</i> .....	1022
USING SATELLITE IMAGERY TO MODEL DISTRIBUTION AND ABUNDANCE OF BICKNELL'S THRUSH ( <i>CATHARUS BICKNELLI</i> ) IN NEW HAMPSHIRE'S WHITE MOUNTAINS. <i>Stephen R. Hale</i> .....	1038

SEASONAL MIGRATION, SPECIATION, AND MORPHOLOGICAL CONVERGENCE IN THE GENUS <i>CATHARUS</i> (TURDIDAE). <i>Kevin Winker and Christin L. Pruett</i>	1052
FAT AFFECTS PREDATOR-AVOIDANCE BEHAVIOR IN GRAY CATBIRDS ( <i>DUMETELLA CAROLINENSIS</i> ) DURING MIGRATORY STOPOVER. <i>David A. Cimprich and Frank R. Moore</i>	1069
GOSLING GROWTH AND SURVIVAL IN RELATION TO BROOD MOVEMENTS IN GREATER SNOW GEESE ( <i>CHEN CAERULESCENS ATLANTICA</i> ). <i>Julien Mainguy, Gilles Gauthier, Jean-François Giroux, and Joël Bêty</i>	1077
GENETIC STRUCTURE OF MEXICAN SPOTTED OWL ( <i>STRIX OCCIDENTALIS LUCIDA</i> ) POPULATIONS IN A FRAGMENTED LANDSCAPE. <i>George F. Barrowclough, Jeff G. Groth, Lisa A. Mertz, and R. J. Gutiérrez</i>	1090
SEX-RELATED NATAL DISPERSAL OF WHITE STORKS ( <i>CICONIA CICONIA</i> ) IN POLAND: HOW FAR AND WHERE TO? <i>Nikita Chernetsov, Wiesław Chromik, Paweł T. Dolata, Piotr Profus, and Piotr Tryjanowski</i>	1103
ASSOCIATIONS OF BREEDING BIRDS WITH FIRE-INFLUENCED AND RIPARIAN-UPLAND GRADIENTS IN A LONGLEAF PINE ECOSYSTEM. <i>Jennifer C. Allen, Sharlene M. Krieger, Jeffrey R. Walters, and Jaime A. Collazo</i>	1110
VOCALIZATIONS AND ASSOCIATED BEHAVIORS OF THE SOMBRE HUMMINGBIRD ( <i>APHANTOCHROA CIRRHOCOLORIS</i> ) AND THE RUFOUS-BREASTED HERMIT ( <i>GLAUCIS HIRSUTUS</i> ). <i>Adriana R. J. Ferreira, Tom V. Smulders, Koichi Sameshima, Claudio V. Mello, and Erich D. Jarvis</i>	1129
PATCH COLONIZATION DYNAMICS IN CAROLINA CHICKADEES ( <i>POECILE CAROLINENSIS</i> ) IN A FRAGMENTED LANDSCAPE: A MANIPULATIVE STUDY. <i>Jeremiah D. Groom and Thomas C. Grubb, Jr.</i>	1149
CAROTENOIDS, IMMUNITY, AND INTEGUMENTARY COLORATION IN RED JUNGLEFOWL ( <i>GALLUS GALLUS</i> ). <i>Kevin J. McGraw and Kirk C. Klasing</i>	1161
ESTIMATING DETECTION PROBABILITIES FROM MULTIPLE-OBSERVER POINT COUNTS. <i>Mathew W. Allredge, Kenneth H. Pollock, and Theodore R. Simons</i>	1172
LETTERS	
THE GREBE-FLAMINGO CONNECTION: A REBUTTAL. <i>Robert W. Storer</i>	1183
THE PUBLIC PERCEPTION OF SCIENCE AND REPORTED CONFIRMATION OF THE IVORY-BILLED WOODPECKER IN ARKANSAS. <i>Jerome A. Jackson</i>	1185
RESPONSE TO LETTER BY J. A. JACKSON. <i>John W. Fitzpatrick, Martjan Lammertink, M. David Luneau, Jr., Kenneth V. Rosenberg, Tim W. Gallagher, and Ronald W. Rohrbaugh</i>	1189
IN MEMORIAM: FRANCISCO BERNIS, 1916–2003. <i>Eduardo de Juana and José Luis Tellería</i>	1190
IN MEMORIAM: JOACHIM STEINBACHER, 1911–2005. <i>D. Stefan Peters</i>	1192
IN MEMORIAM: RAYMOND JOSEPH O'CONNOR, 1944–2005. <i>Tony Diamond</i>	1193
IN MEMORIAM: PAUL SLUD, 1919–2006. <i>Richard L. Zusi</i>	1196
REVIEWS. <i>Edited by R. Todd Engstrom</i>	1198
100 YEARS AGO IN THE AMERICAN ORNITHOLOGISTS' UNION	1208
REVIEWERS FOR <i>THE AUK</i> , 2006	1210
INDEX TO VOLUME 123. <i>Compiled by Todd J. Underwood and Robyn M. Underwood</i>	1212

## DATES OF ISSUE OF "THE AUK"

VOL. 123, No. 1–2 FEBRUARY 2006

VOL. 123, No. 2–2 MAY 2006

VOL. 123, No. 3–19 JULY 2006

VOL. 123, No. 4–18 OCTOBER 2006



